

20020801.qrp v02_n634.qrl.20020801

Date: Thu, 1 Aug 2002 19:03:10 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2634

QRP-L Digest 2634

Topics covered in this issue include:

- 1) [131212] More omnidirectional? Try INV V
by psykey@okcforum.org (Jim Glover)
- 2) [131213] Re: OT - Windows 95 on floppies?
by "Mike Yetsko" <myetsko@insydesw.com>
- 3) [131214] NEQRP CW Net, Thursday, 1 Aug 02, 08:30 PM EDT, 3.565 MHz
by Chuck Ludinsky <cjl@mitre.org>
- 4) [131215] Re: [Wyoming for QRP'ers?]
by Larry Cahoon <lejek@erols.com>
- 5) [131216] RE: Newbie Antenna- 180 METERS?
by Karl Kanalz <kkanalz@gcecispc.com>
- 6) [131217]
by Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
- 7) [131218] Re: OT - Windows 95 on floppies?
by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
- 8) [131219] RE: Newbie Antenna
by Nick Kennedy <nkennedy@tcainternet.com>
- 9) [131220] Low loop of fine wire
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 10) [131221] Wanted: Hauff Custom NC20 Case
by "Alan Fryer" <N3BJ@hotmail.com>
- 11) [131222] User friendly contest software for blind friend
by "WI8W" <wi8w@arrl.net>
- 12) [131223] Re: Smith Chart Use
by Bill Coleman <aa4lr@arrl.net>
- 13) [131224] Protocol for CHN?
by Kenneth Hoglund <hoglund@wfu.edu>
- 14) [131225] [CONTEST] N2CQ QRP Contest Contest Calendar - August 2002
by "Ken Newman" <n2cq@dandy.net>
- 15) [131226] Re: Smith Chart Answers all questions
by Bill Coleman <aa4lr@arrl.net>
- 16) [131227] SWR indicator with LM3914
by n5ib@juno.com
- 17) [131228] Re: Smith Chart Answers all questions
by Dave Richards <wr3i@earthlink.net>
- 18) [131229] NC-20 Output Purity - The Fix
by Karl Heimbach <kheimbach@ev1.net>
- 19) [131230] Re: [CONTEST] N2CQ QRP Contest Contest Calendar - August 2002

- by George Fremin III - K5TR <geoiii@kkn.net>
- 20) [131231] Re: Smith Chart Use
by "Karl F. Larsen" <k5di@zianet.com>
- 21) [131232] Re: loop skywire wire size vs strength...
by "ss lyon" <sslyon@megalink.net>
- 22) [131233] Re: Dummy Load
by "Brice D. Hornback" <bdh@cyberbound.net>
- 23) [131234] RE: Dummy Load
by Tim and Michele Groat <tmgroat@peakpeak.com>
- 24) [131235] MRX-40 question
by "T.J. \"Skip\" Arey N2EI" <tjarey@tjarey.com>
- 25) [131236] Re: Is homebrew for you?
by "George, W5YR" <w5yr@att.net>
- 26) [131237] trac- te-133 keyer
by William R Colbert <w5xe@juno.com>
- 27) [131238] Re: Is homebrew for you?
by "George, W5YR" <w5yr@att.net>
- 28) [131239] Re: Smith Chart Use
by Bill Coleman <aa4lr@arrl.net>
- 29) [131240] Wyoming Skeds
by "Steve McDonald" <jsm@gulfislands.com>
- 30) [131241] Re: MRX-40 question
by Chuck Carpenter <w5usj@9plus.net>
- 31) [131242] Re: OT - Windows 95 on floppies?-Using LAPLINK>
by ve3ab@mail.mondenet.com
- 32) [131243] Re: Wyoming for QRP'ers?
by "pschweit" <pschweit@mninter.net>
- 33) [131244] Re: Is homebrew for you?
by Bruce Muscolino <w6toy@erols.com>
- 34) [131245] Re: Smith Chart Use
by "Bill Walker" <wv7g@arrl.net>
- 35) [131246] Re: [CONTEST] N2CQ QRP Contest Contest Calendar - August 2002
by Bruce Muscolino <w6toy@erols.com>
- 36) [131247] Magazines for sale
by "Marty N5NW" <n5nw@n5nw.org>
- 37) [131248] Re: Is homebrew for you?
by "Brian" <brian@iquest.net>
- 38) [131249] The Other Fox Aug. 1st
by Thomas <ac7a@gci-net.com>
- 39) [131250] FS: ARRL Universal CW Transmitter w/pic
by RLucch2098@aol.com
- 40) [131251] Re: [Protocol for CHN?]
by "P.Ermisch" <ermisch@usa.net>
- 41) [131252] Re: Smith Chart Use
by Dave Hottell <hottell@gulftel.com>
- 42) [131253] RE: SWR indicator with LM3914
by Conrad Weiss <radman@best.com>
- 43) [131254] Win 95 help - Thanks!

by "Doug Hauff" <dhauff@digitalputty.com>
44) [131255] Old QST's - 30's, 40's, 50's...
by "Doug Hauff" <dhauff@digitalputty.com>
45) [131256] RE: Dummy Load
by Conrad Weiss <radman@best.com>
46) [131257] Re: SBL-1
by Mike Czuhajewski <wa8mcq@comcast.net>
47) [131258] Re: Things that didn't work (long)
by "Adam" <jabba@w3.to>
48) [131259] Wire wound resistors and artificial antenna
by "Adam" <jabba@w3.to>
49) [131260] Re: Is homebrew for you?
by Bruce Muscolino <w6toy@erols.com>
50) [131261] Re:
by Ingo Meyer DK3RED <dk3red@t-online.de>
51) [131262] Re: loop skywire wire size vs strength...
by "Pastor-KC1DI" <elbc@pivot.net>
52) [131263] Re: Newbie Antenna
by "Pastor-KC1DI" <elbc@pivot.net>
53) [131264] Dummy Load Info
by "Jeff Davis" <ke9v@att.net>
54) [131265] Walt Maxwell's Reflections
by "Karl F. Larsen" <k5di@zianet.com>
55) [131266] Re: Low loop of fine wire
by "Dean LaClair - Adk-Com" <nr2v@northnet.org>
56) [131267] [OT] Looking for Standard C228A Manual
by adamvaz@palm.net (Adam Vazquez)
57) [131268] Re: NC-20 Output Purity - The Fix
by "Rod N0RC" <rod@n0rc.us>
58) [131269] Re: Smith Chart Answers all questions
by Mike <mmorrow@companet.net>
59) [131270] Question about clamp on computer ferrites;
by "Dean LaClair - Adk-Com" <nr2v@northnet.org>
60) [131271] Re: Walt Maxwell's Reflections
by Bill Coleman <aa4lr@arrl.net>
61) [131272] Conjugate Match, disappear!
by "Karl F. Larsen" <k5di@zianet.com>
62) [131273] Re: Vibroplex Folks - A Great Experience
by "Rick Tyler" <rp.tyler@worldnet.att.net>
63) [131274] 50 ohm bnc home brew
by "Hartwell, Martin E, ALINF" <mehartwell@att.com>
64) [131275] Re: Smith Chart Answers all questions
by "Karl F. Larsen" <k5di@zianet.com>
65) [131276] Re: Walt Maxwell's Reflections
by "Jeff Davis" <ke9v@att.net>
66) [131277] Re: SWR indicator with LM3914
by Steven Weber <kd1jv@moose.ncia.net>
67) [131278] Re: loop skywire wire size vs strength...

by "Bob Tellefsen" <n6wg@earthlink.net>

68) [131279] Re: Newbie Antenna
by "Bob Tellefsen" <n6wg@earthlink.net>

69) [131280] Howzabout Win 3.1?
by "Doug Hauff" <dhauff@digitalputty.com>

70) [131281] Re: Howzabout Win 3.1?
by "Randy Randall" <randallr@healthall.com>

71) [131282] Porta Paddle & Rainbow Tuner Case
by "wilford lindsey" <dock0evz@earthlink.net>

72) [131283] Re: SWR indicator with LM3914
by "n2cx" <n2cx@voicenet.com>

73) [131284] Conjugate Match, Momma said
by "Charles Mabbott" <aa8vs@msn.com>

74) [131285] Re: Conjugate Match, disappear!
by Bruce Muscolino <w6toy@erols.com>

75) [131286] Re: [NJQRP] [CONTEST] N2CQ QRP Contest Contest Calendar - August
2002
by W2AGN <w2agn@w2agn.net>

76) [131287] Need Wyoming? BB 72 Finally Checks In
by "Johnson, Mike (MED, OEC)" <Mike.Johnson@med.ge.com>

77) [131288] Address Help
by Chris Trask <ctrask@primenet.com>

78) [131289] RE: [131207] RE: [131072] RE: Most Wanted States = *Wyoming*
by Brian Kassel <bkassel@mato.com>

79) [131290] Cushcraft R-5 HF vertical antenna
by Bruce Ratray <ratray@gpfn.sk.ca>

80) [131291] Re: Cushcraft R-5 HF vertical antenna
by Arthur Moe <kb7ww@easystreet.com>

81) [131292] Re: Cushcraft R-5 HF vertical antenna
by Bruce Ratray <ratray@gpfn.sk.ca>

82) [131293] RE: [131207] RE: [131072] RE: Most Wanted States = *Wyoming*
by Bruce Ratray <ratray@gpfn.sk.ca>

83) [131294] Truffle Hunt
by k8cz@att.net

84) [131295] Re: Conjugate Match, disappear!
by Bill Coleman <aa4lr@arrl.net>

85) [131296] NoGa Announces the "Guppy" - New Kit
by "John P. Cummins, Sr." <jpcummins@charter.net>

86) [131297] Re: Smith Chart Use
by Bill Coleman <aa4lr@arrl.net>

87) [131298] Re: Smith Chart Answers all questions
by Bill Coleman <aa4lr@arrl.net>

88) [131299] Ugly BNC sockets
by "Leon Heller" <leon_heller@hotmail.com>

89) [131300] OT request
by Steven Weber <kd1jv@moose.ncia.net>

90) [131301] QRP Egos
by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>

- 91) [131302] Lost e-mail files and the Elecraft reflector
by Mike Czuhajewski <wa8mcq@comcast.net>
- 92) [131303] because of my QRP-Lmers ...
by "Tracy Markham" <tracy@bytemark.com>
- 93) [131304] RE: QRP Egos
by "Tracy Markham" <tracy@bytemark.com>
- 94) [131305] N3BJ Fox Reminder
by "Alan Fryer" <N3BJ@hotmail.com>
- 95) [131306] Re: QRP Egos
by Ed Tanton <n4xy@earthlink.net>
- 96) [131307] SMPS SMD Inductors as HF filters?
by "Tracy Markham" <tracy@bytemark.com>
- 97) [131308] Re: QRP Egos
by W2AGN <w2agn@w2agn.net>
- 98) [131309] Re: because of my QRP-Lmers ...
by W2AGN <w2agn@w2agn.net>
- 99) [131310] '95 on the way
by "Doug Hauff" <dhauff@digitalputty.com>
- 100) [131311] Re: because of my QRP-Lmers ...
by "Mike Yetsko" <myetsko@insydesw.com>
- 101) [131312] NorCal's August Meeting this weekend
by "Jerry Parker" <qrpradio@charter.net>
- 102) [131313] Re: Howzabout Win 3.1?
by "Doug Hauff" <dhauff@digitalputty.com>
- 103) [131314] Re: Low loop of fine wire
by Bill ROWLETT <kc4atu@yahoo.com>
- 104) [131315] Re: QRP Egos
by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>

Date: Wed, 31 Jul 2002 17:53:00 -0500 (CDT)
From: psykey@okcforum.org (Jim Glover)
To: n9puz@arrl.net, qrp-l@lehigh.edu
Subject: [131212] More omnidirectional? Try INV V
Message-ID: <20020731225300.3A05B883E@okcforum.org>

Tim N9PUZ <n9puz@arrl.net> asked:

> Is there a particular length or type of wire
> antenna that offers more circular (less null areas) coverage at
> heights in the 30-40 ft range?

It sounds like you're looking for an inverted V antenna! The pattern of an inverted V is fairly close (some might even say very close) to omnidirectional.

Since I'm directing this reply to the whole list, I'll go ahead and

briefly explain what an inverted V is:

An inverted V is a variation on a dipole. To make an inverted V, take the same wires, insulators and feedlines that you'd use to make a dipole, but instead of stretching the two legs straight in line with each other, mount the center insulator at a high point, and angle the legs down toward ground, keeping the angle between the legs greater than 90 degrees. Ideally, the ends of the legs should be about 8 feet or more above ground, to avoid excessive losses due to proximity to ground, and to keep people from accidentally coming into contact with the antenna during transmissions. With an apex at 30-40 feet, an 88' antenna will fit this configuration.

Now that we all know what kind of antenna we're talking about, let's talk about its radiation pattern. To keep things simple, assume we mean the basic case of an antenna which is a half wavelength long. The idea behind the 88' dipole is that, within a certain limited range of frequency bands, the main characteristics of the radiation pattern still have much in common with that classical, easily understood model.

If you look at a dipole end-on, you see only a point. From that point of view, you would see no current flowing on the antenna. In other words, the current is flowing up and down the wire, or across it, or whatever you want to call it...but from an end-on view, it's flowing toward and away from the observer, but not across the field of view. If you know the relationship between the acceleration of current flow in a conductor and electromagnetic radiation (research "Maxwell's equations" if you're curious) you'd see that no radiation can occur off the end of a dipole. And, that's a well-known property of a classical dipole.

Not quite so well-known is the fact that an inverted V's pattern doesn't have the same effect. There is no direction from which you can look at an inverted V and not see some of the current cut across your field of vision. If you look at an inverted V from the same point in space which would be the end of a dipole mounted on the same support, you will see a (somewhat vertically squashed) view of current moving up and down the legs of the inverted V, and there will be radiation in your direction. Therefore, there is vertically polarized radiation "off the ends" of an inverted V (meaning in the same compass direction that the ends are oriented, rather than straight off the ends of the wires). This mixes with the more familiar horizontally polarized broadside radiation that the dipole and inverted V have in common, resulting in a pattern without significant nulls.

When I got started in amateur radio (back in the 70's) you heard a lot more enthusiastic support of the inverted V as an ideal choice for a single, simple wire antenna. Since then, the trend has been to dismiss the inverted V as a variation on a dipole, and discuss the classical

dipole instead. Unfortunately, this habit ignores the fact that an inverted V has several advantages over a classical dipole:

- Feedpoint impedance closer to the 50 ohms that modern gear expects (assuming a half wave on a single band).
- Ability to fine-tune SWR by adjusting the angle of the ends.
- Single high support structure (pole, tower) required for apex/feedpoint.
- Less real estate end-to-end (about 71%) for a given length of antenna.
- Omnidirectional radiation.

The elevation of the radiation in the end directions varies with height above ground. Also, if you use your inverted V for multiple bands (as people usually have in mind when they discuss the popular 88' dipole) the elevation of the radiation off the ends varies from band to band. Similar remarks could be made about the broadside radiation from a dipole or inverted V, too... I'm not taking back what I've said about a more omnidirectional radiation pattern; I'm just saying that (similar to classical dipoles) inverted V's get more complicated when you discuss their use on multiple bands than in the more basic case of a half wavelength on a single band. Nevertheless, the inverted V configuration remains a very good choice for multiband use as well as single band use, and generally has less pronounced nulls in its radiation pattern than a classical dipole configuration.

The same general guidelines about length of dipoles apply to inverted V's, as well. For relatively consistent results on 80 through 20, use 88'. For relatively consistent results on 40 through 10, use 44'. (In each case the dipole or inverted V remains useful, albeit with a less straightforward radiation pattern, on still higher bands. The lower bands for each length are a harder limit.)

And, getting back to classical dipoles for just a moment, it should be emphasized that the directional pattern of a classical dipole depends on its height above ground. The radiation pattern discussed for 88' and 44' dipoles assumes in each case that the antenna is at least a half wavelength about ground. For lower heights above ground, the directional pattern is less pronounced. In other words, another way to get more omnidirectional radiation is to mount just about any horizontally polarized wire antenna at the kinds of heights that many hams are restricted to these days, rather than at the 70' the 88' dipole discussion assumes! 30 to 40 feet is low for bands up through 40 meters. Above that, it's reasonably high, and the assumptions about radiation patterns hold.

Also, a vertical (the ultimate omnidirectional radiator) can be a wire antenna. If you have enough space to mount a classical dipole up a quarter wavelength or so, you can hang a vertical wire from a rope. You'll need a bunch of radials if you mount it with its feedpoint on the ground. (How many? There's lots of religion surrounding that question. Four is definitely too few, and 120 is close to perfect. Within that range, people argue spiritedly about what the least number of acceptable radials is, or the number above which it's not worth the effort or expense to lay more wire. A nice middle-of-the-road number would be 16 as a minimum.) If you can get the feedpoint up a quarter wavelength or so, two radials are enough, and four would be plenty. For the 30-40' range you asked about, you could make a fairly simple multi-band vertical for 40 and above with its feedpoint on the ground. If you decide you want to put up a vertical, read more about 'em first.

73,
Jim WB5UDE

Date: Wed, 31 Jul 2002 18:54:57 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <dhauff@digitalputty.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131213] Re: OT - Windows 95 on floppies?
Message-ID: <00be01c238e5\$77f97aa0\$0300a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hmm, while it's POSSIBLE, it's still a pain...

Can you get interlink working? Or LapLink? Then copy the cabs from a CD over and then install?

How much memory? I've run WIN98 on 8meg, but, depending on other factors, it can barf on the install with only 8Meg.

Mike

On Wed, 31 Jul 2002, Doug Hauff wrote:

> Hey gang i scored a nice little laptop at Tuthill, a 486 with a 1.5 gig
hard
> drive, but empty - DOS but no Windows....anyone have an early copy of
> Windows 95 on floppies i could beg/borrow/rent/buy/copy?
>

> TNX & 72
>
> Doug KE6RIE

Date: Wed, 31 Jul 2002 19:17:08 -0400
From: Chuck Ludinsky <cjl@mitre.org>
To: neqrp@jonal.net, qrp-1@lehigh.edu
Subject: [131214] NEQRP CW Net, Thursday, 1 Aug 02, 08:30 PM EDT, 3.565 MHz
Message-ID: <3D486FF4.7C856BCF@mitre.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The New England QRP Club's CW net meets again on Thursday, 1 August 02, at 08:30 PM EDT (i.e., 0030Z, 2 Aug 02) on 3.565 MHz. Net control operator for this week's session will be John, WB1HBE, operating from Chelmsford, MA.

Please stop by and say hello to John and the folks on the net.

72 DE K1CL,
Chuck

Date: Wed, 31 Jul 2002 23:32:53 +0000
From: Larry Cahoon <lejek@erols.com>
To: ermisch@usa.net,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [131215] Re: [Wyoming for QRP'ers?]
Message-ID: <5.1.0.14.0.20020731230124.0295c530@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

That was Rick, AI5P/M. He got into WY yesterday afternoon. I worked him with 5 watts from MD for my last in WY second time around when he was in Crook County. Also worked him a bit later in Johnson County. I missed him this morning when I think he ran the last I need QRP in WY - Sheridan. I heard him this afternoon in Hot Springs, and in Fremont a few minutes ago (2315z), but he was too weak both time for me to get him QRP. He said he was going QRT for the day, so he should be running more WY counties

tomorrow. Look for him on 14.056.5 and 14.336.

You are right - WY is common during the summer. You will also hear W7TSM working the mobiles from time to time. He lives in WY. When you listen in on county hunter's net there are no rare states.

KC0JG/M just drove through ID, MT, and ND. W0GXQ/M was in MT on Sunday. The time of the year does not always matter. I worked W0GXQ/M 16 times in ND early last Jan. and 25 times in SD later that month with power levels running from 5 watts down to 100 mWatts. In fact the only states I have not worked a mobile in while running 5 watts or less in the last year are DE, HI, and AZ. And that was mainly because I don't need any counties in those three states.

73 de Larry.....WD3P in MD
<http://www.wd3p.net/>

At 04:32 PM 7/31/2002 -0600, P.Ermisch wrote:

>Also, listening to County Hunters Net today on 14.0565, there was a mobile
>running multiple WY counties. Heard Washakie county but can't remember the
>other. He couldn't hear me though - either QRP or QRO from Colorado. From my
>experience, WY is fairly common on CHN during the summer.

Date: Wed, 31 Jul 2002 18:17:43 -0500
From: Karl Kanalz <kkanalz@gcecispc.com>
To: "'kc4atu@yahoo.com'" <kc4atu@yahoo.com>,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131216] RE: Newbie Antenna- 180 METERS?
Message-ID: <01C238C1.7240FB20@KKANALZ>

Really, Bill? An antenna that's 180 meters long? That takes a pretty big piece of real estate to erect (and support). :)

Karl K - W8TIF
McKinney, Texas

-----Original Message-----
From: Bill ROWLETT [SMTP:kc4atu@yahoo.com]
Sent: Wednesday, July 31, 2002 3:36 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Newbie Antenna

Under those conditions, I would go with a 180 meter dipole feed with 300ohm twinlead <snip>

Date: Wed, 31 Jul 2002 16:37:16 -0700
From: Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@lehigh.edu>
Message-ID: <7FD24C15A06DD511BF9E00D0B73E9952047A84D4@az33exm05.corp.mot.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="ISO-8859-1"

I agree with Steve. A 'scope was a huge boon to understanding why a stage was not working and figuring out what to do about it.

BS (Before Scope), if it did not work and DC measurements did not tell me anything, all I could do would be to try a totally different circuit.

- Dan Tayloe, N7VE; Phoenix, Az; Az Scqrptions

Date: Wed, 31 Jul 2002 17:48:58 -0600 (CST)
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131218] Re: OT - Windows 95 on floppies?
Message-ID: <Pine.OSF.4.44.0207311732450.43679-1000000@duke.usask.ca>
MIME-version: 1.0
Content-type: TEXT/PLAIN; charset=US-ASCII

Just in case it helps here are some ideas on how to get Win 95 on your computer. (Of course these all assume you have the media on CD etc.)

1. (My favourite) Get a Zip Disk which plugs into the parallel port. Windows 95 (just the CAB files) will fit on one 100Mb Zip Disk. Run the "guest" program and copy the cabs to your laptop.
2. (I have never tried this but it sounds slick) Is it easy to remove the hard drive? I am told there is a device which allows you to connect a laptop drive to a USB port. Find a Windows98 or later computer with a USB port and copy the files onto the hard drive.
3. If the laptop has a CD or you can borrow a CD which plugs into the parallel port then you could boot from a windows 98 startup floppy (98 not 95 since the 98 startup disk has CD-ROM support built in) and copy over the files. Then reboot and run the setup.
4. If you have an ethernet card for the laptop you might be able to create a boot disk using MSCLIENT.

5. Laplink, Intersvr or one of the other direct connect methods. This can get kind of technical and is not for the faint of heart.

6. Get a DOS copy of kermit and connect two machines through the serial ports.

7. I have also seen a device advertized that allows one to mount a laptop harddrive in a standard IDE harddrive chain on a desktop computer. You could use this to copy the files over but it involves opening a computer and installing the drive.

I hope this helps. Let me know if I can help you further.

Brian.

On Wed, 31 Jul 2002, Doug Hauff wrote:

> Hey gang i scored a nice little laptop at Tuthill, a 486 with a 1.5 gig hard
> drive, but empty - DOS but no Windows....anyone have an early copy of
> Windows 95 on floppies i could beg/borrow/rent/buy/copy?
>
> TNX & 72
>
> Doug KE6RIE

Brian Buydens
Veterinary Electronic Data Specialist
Computing Services, University of Saskatchewan
email: Brian.Buydens@usask.ca
<http://duke.usask.ca/~buydens>
VE5RDV

There is nothing to it. You only have to hit the right notes at the
right time and the instrument plays itself.

- Johann Sebastian Bach

Date: Wed, 31 Jul 2002 18:51:40 -0500

From: Nick Kennedy <nkennedy@tcainternet.com>
To: "'N9LAE@amsat.org'" <N9LAE@amsat.org>,
"Low Power Amateur Radio Discussion (E-mail)" <qrp-1@lehigh.edu>
Subject: [131219] RE: Newbie Antenna
Message-ID: <01C238C3.4F7A79C0.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Being limited to only 20 feet, I think I'd go with a vertical on the roof.
Maybe a trap vertical (with radials).

Of course now that I've talked you into a nice tall pole on the roof
(right?), you've got a support for one of those neat multi-band dipole
things we've been talking about--maybe the 88 footer with twin lead and a
tuner.

BTW--"the antenna must be homebrew" isn't a drawback. That's as it should
be anyway.

72/GL,

Nick, WA5BDU

-----Original Message-----

From: Bill Coady [SMTP:N9LAE@amsat.org]

Being new to HF I am looking to put up an antenna, and so would welcome
ideas and suggestions. I do have a few restrictions that I am dealing
with, however. First is lack of budget. I spent the budget on the radio
(I know you are not supposed to do that, but I did....) so the antenna will
have to be homebrew. Second is lack of height. Basically I have a ranch
house where the highest point is about 20 feet.

Date: Wed, 31 Jul 2002 19:07:54 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: "Bruce Rattray" <rattray@gpfn.sk.ca>
Cc: <qrp-1@lehigh.edu>
Subject: [131220] Low loop of fine wire
Message-ID: <004201c238ef\$7bf8b030\$4e100a0a@rohredt2000>

Bruce,
Just don't make the loop sides too taut, and put springs in at least two
corners for strain relief. Be prepared to occasionally have to splice a
snapped wire at those fine gauges. There will be some sag, but you can live

with that. That is pretty minimal wire. One of our locals with antenna restrictions uses larger wire, and paints it FLAT BLACK. He claims it fades out against any sky color. Might give that a chance with larger conductor if you can. You could always make a trial section, and put it up and try it for a few days.

72, Stuart K5KVH

Date: Thu, 01 Aug 2002 00:20:45 +0000
From: "Alan Fryer" <N3BJ@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [131221] Wanted: Hauff Custom NC20 Case
Message-ID: <0E75PzQT456UnHAAaz70000052b@hotmail.com>

Looking for the custom case Doug did for the NC20. Might consider an NC20 with this case wrapped around it, too.

Please let me know if you have one that is surplus to your needs.

Alan, N3BJ
Bent Mountain, VA

Date: Thu, 1 Aug 2002 00:54:32 -0000
From: "WI8W" <wi8w@arrl.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Cc: <mrrc@contesting.com>, <writelog@contesting.com>
Subject: [131222] User friendly contest software for blind friend
Message-ID: <006101c238f5\$fffe6400\$6401a8c0@attbi.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

Any help you can supply greatly appreciated on the following:

I have a friend who is a ham and is blind. He simply loves contesting. He uses a speech program called Jaws that he uses to read the computer screen running Windows 98.

We are looking for a really good contesting package that is compatable with this speech program.

We have tried the following already:

NA - Jaws can read the contest QSO entry dialog but simply cannot handle the setup menu system.

We are going to try Writelog tomorrow evening using my registered copy.

If anyone has any suggestions or experience with contesting software that can be used for a blind tester, please let me know. Also if anyone cares to post this on other lists they may subscribe to but I do not please do so. Someone, somewhere must have something useful.

Thanks

73

Thom WI8W
wi8w@arrl.net

Date: Wed, 31 Jul 2002 21:15:35 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131223] Re: Smith Chart Use
Message-ID: <20020801011708.SZZH4928.imf07bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/31/02 8:18 AM, Karl F. Larsen at k5di@zianet.com wrote:

>You must borrow or buy the ARRL Antenna Handbook of the last 5
>years or so. In section 28 is a wonderful tutorial on using a Smith
>Chart to do the feedline things I need.

>

> Alas, my German drawing tools that were so very nice were lost
>about 1958. Right after a drafting class in which I was given a passing
>grade on a promise that I never become a Civil Engineer!

Uh, gosh, Karl. How is it you could have a PhD in EE, have taught Maxwell's equations for 12 or so years, and yet be completely unfamiliar with a Smith Chart?

Seems something doesn't fit with these claims. Either that, or you're suffering from some sort of acute amnesia....

> Very soon I will be ready to prove how the interface between the
> feed line and the tuner reflects power back up the feedline to the
> antenna again. Interesting stuff. Try it yourself.

No one here needs any proof, Karl. Walt Maxwell's word was proof enough for most of us.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
-- Wilbur Wright, 1901

Date: Wed, 31 Jul 2002 21:19:34 -0400
From: Kenneth Hoglund <hoglund@wfu.edu>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131224] Protocol for CHN?
Message-ID: <3D488CA6.80F4A00A@wfu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Larry and Paul--

Could you let us know how the County Hunters Net functions, or direct us to a website that explains the net protocols? I assume we can't just 'crash in' when we hear a station from a locale we need.

73
Ken KG4FGC

Date: Wed, 31 Jul 2002 21:20:53 -0400
From: "Ken Newman" <n2cq@dandy.net>
To: "W3BG" <W3BG@arrl.net>, "N4SO" <N4SO@Juno.com>,
"QRP-L Reflector" <QRP-L@lehigh.edu>,
Subject: [131225] [CONTEST] N2CQ QRP Contest Calendar - August 2002
Message-ID: <002301c238f9\$af414e20\$609ffa42@18.95.182.twsn1.md.home.com>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

~~~~~

## N2CQ QRP CONTEST CALENDAR

August 2002

~~~~~

Summer Fox Hunts - 20 M CW QRP - Fri 0200z

(Thursday Evenings US Local Time)

Details: <http://www.cqc.org/fox/index.htm>

=====

Truffle Hunt 30 minutes before the Fox Hunt

Details: <http://fpqrp.com/struffle.html>

~~~~~

Ten-Ten SSB Contest ... QRP Category

Aug 3 - 0000z to Aug 4 - 2400z

Rules: <http://www.ten-ten.org/>

"Encourage maximum cordial activity on the 10-meter band"

~~~~~

North American QSO Party (CW) ...100W out or less

Aug 3 - 1800z to Aug 4 - 0600z

Rules: <http://www.ncjweb.com/naqprules.php>

"Work Any North American Station"

~~~~~

Adventure Radio Spartan Sprint (CW) \*\*\* QRP CONTEST! \*\*\*

Aug 6 - 0100z to 0300z (Monday Evenings US/Can local time)

Rules: [http://www.natworld.com/ars/pages/spartan\\_sprints/ss\\_rules.html](http://www.natworld.com/ars/pages/spartan_sprints/ss_rules.html)

"Testing of lightweight radio gear for outdoor QRP expeditions"

~~~~~

Worked All Europe DX Contest (CW) ... <100W category

Aug 10 - 0000z to Aug 11 - 2400z

Rules: <http://www.darc.de/referate/dx/fedcw.htm>

"THE most challenging DX contest in the world..."

~~~~~

Maryland/DC QSO Party (SSB/CW) ... QRP Category

Aug 10 - 1600z to Aug 11 - 0400z

Aug 11 - 1600z to Aug 11 - 2359z

Rules: <http://www.w3cwc.org/rules.html>

"Work MD Counties. More points for QRP stations worked"

~~~~~

North American QSO Party (SSB) ... 100W or less

Aug 17 - 1800z to Aug 18 - 0600z

Rules: <http://www.ncjweb.com/naqprules.php>

"Work Any North American Station"

~~~~~

NJ QSO Party (CW/SSB)

Aug 17 - 2000z to Aug 18 - 0700z

Aug 18 - 1300z to Aug 19 - 0200z

Rules: <http://www.sk3bg.se/contest/njqp.htm>

"Work NJ Counties"

~~~~~  
Hawaii QSO Party (CW/SSB/Digital)

Aug 24 - 0700z to Aug 25 - 2200z

Rules: <http://www.arrl.org/contests/months/aug.html>

"QRP Category Gone"

~~~~~

TOEC WW Grid Contest (CW) ... <100W category

Aug 24 - 1200z to Aug 25 - 1200z

Rules: <http://www.qsl.net/toec/contest.htm>

"Boost the interest on grid hunting on the HF bands"

~~~~~

Ohio QSO Party (CW/SSB) ... QRP Category

Aug 24 - 1600z to Aug 25 - 0400z

Rules: <http://www.mrrc.net/oqprules/>

"Work OH Counties"

~~~~~

BUBBA Summer QRP Sprint \*\*\* QRP CONTEST! \*\*\*

Aug 24 - 1800z to 2200z

Rules: <http://www.extremezone.com/~nk7m/>

"BURN YOUR B\_\_\_ OFF "

~~~~~

Colorado QRP Club - Summer QSO Party (SSB/CW) *** QRP CONTEST! ***

Aug 25 - 1800z to 2359z

Rules: <http://www.cqc.org/contests/summer02.htm>

"Single Band, Multi-band & Portable Categories"

~~~~~  
YO DX HF Contest (CW/SSB)

Aug 31 - 1200z to Sep 1 - 1200z

Rules: [http://www.qsl.net/yo3kaa/contests/yodx\\_eng.htm](http://www.qsl.net/yo3kaa/contests/yodx_eng.htm)

"Work Any DX"

~~~~~  
Thanks to SM3CER, WA7BNM, ARRL and others
for assistance in compiling this calendar.

Please foreward the contest info you sponsor to N2CQ@ARRL.NET and
we will post it and give it more publicity.

Anyone may use this "N2CQ QRP Contest Calendar" for your website,
newsletter, e-mail list or other media as you choose.

(Include a credit to the source of this material of course.)

**** QRP Contest Calendar ****

<http://www.njqrp.org/data/contesting.html>

<http://www.n3epa.org/Pages/Contest/contest.htm>

<http://www.qsl.net/cqrp/contests.html>

72 de

Ken Newman - N2CQ

N2CQ@ARRL.NET

Date: Wed, 31 Jul 2002 21:28:14 -0400

From: Bill Coleman <aa4lr@arrl.net>

To: <k5di@zianet.com>,

"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [131226] Re: Smith Chart Answers all questions

Message-ID: <20020801012948.SPUF27997.imf05bis.bellsouth.net@[192.168.0.20]>

Mime-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

On 7/31/02 5:05 PM, Karl F. Larsen at k5di@zianet.com wrote:

>The Smith Chart sure does show you what's going on. Just as Jim

>Duffey said, once you plot what is going on you will see why there is
>reflection at the output port of the tuner.
>
> I learned about the SWR circle. If you plot the load impedance on
>the Smith Chart you can draw a circle with your compass that is centered on
> $R = 1$ and passes through the load impedance. This SWR circle is defined by
>the load as is proper.

Karl, I still have one question. How could you possibly hold a PhD in EE, as you claimed and be completely unfamiliar with the Smith Chart? Given your relative age, it seems unlikely that you could have earned such a degree before the Smith Chart came into use, nor is it likely that you managed to earn the degree in the computer age, where computational power now assaults many of the problems that were so elegantly address with the Smith Chart.

As for the SWR circle, it's only a circle if the line has no loss. If the line has loss, the "circle" will actually spiral toward the Z_0 of the line.

I believe I stated the same last week. Karl? are you listening?

>The impedance at the point 0.31
>waves back to the Generator on the SWR circle was $0.9 - j2.2$ as best I can
>read it. For maximum power transfer to the feed line the tuner must have an
>impedance of $0.9 + j2.2$.

What I'm still foggy on is the fact that half the power isn't burned up in the tuner. Could some other EE PhD explain why the conditions of Maximum Power Transfer don't really apply?

I think the important fact here is that the reactances cancel.

> Next it is assumed since the SWR is high that some of the incident
>transmitter power will be reflected at the antenna feed point. This power
>will travel back down the feed line to the tuner output. For this case the
>Generator is the antenna impedance and the tuner output port is the load.
>When I rotated the impedance from the antenna to the tuner it turned out to
>be $0.8 + j2.2$ and a poor match to the tuner output. So this will cause a
>re-reflection of the reflected power back up the feed line along with the
>incident power from the transmitter.

Yes, yes, yes, and these reflections bounce back and forth, back and forth -- and since they aren't lost in the feedline (you're assuming a lossless feedline with an SWR circle), they eventually are radiated.

Gosh, Karl, isn't this EXACTLY what you were told, what, three weeks ago?

> If you put a power meter in the feed line, you will read the incident
>and the re-reflected power which is MORE than your transmitter is putting
>out.

Ancient history. This is a well-known phenomena that has been observed by many amateurs. The hard part is getting an ACCURATE measurement of the power involved. A power meter that is calibrated for 50 ohms is going to give inaccurate results when you plug it into a complex, odd impedance like this.

> I borrowed an antenna handbook from Bill Brown W5UMQ and he told me
>about a friend who is making a super power 75 meter mobile. He has a center
>loaded whip with the center loading coil made of 1/4 inch copper pipe! His
>antenna impedance at resonance was measured to be 15 ohms. He has a Icom 706
>driving an Icom amp that makes 400 watts, and a feed line of RG-213 about 12
>feet long and he put a Bird Watt meter in the line between the tuner and the
>antenna and was measuring 520 watts!

And how accurate is this 50 ohm directional coupler when measuring a 15 ohm impedance?

> He re-checked the amp and it was
>working properly. He called Bill Brown who told him to put the power meter
>between the amp and the tuner. When he did it he read 400 watts as expected.

400 watts enters the feedline, and 400 watts leaves the feedline to the antenna. The fact that some of it bounces around a while isn't important. (As long as the line has negligible loss)

> Now some day I will measure my 450 ohm ribbon length and with my MFJ
>Antenna Analyzer measure what the real antenna impedance is with the Smith
>Chart...a real useful device for a Ham QRP operator who needs all 5 watts on
>the antenna. But for sure I now understand why my antenna works, and
>understand how to use a Smith Chart again.

"Again". Gosh, Karl, from the way you were writing, it sounds like you were the first one to discover the doggone thing.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Wed, 31 Jul 2002 21:28:24 EDT

From: n5ib@juno.com
To: qrp-1@lehigh.edu
Subject: [131227] SWR indicator with LM3914
Message-ID: <20020731.191629.4631.2.n5ib@juno.com>

OK gang, while monitoring a 2-hour physics final exam today I whiled away the time thinking... and that can be dangerous :^))

DISCLAIMER: Now, surely this has been thought up before and already done... so the question is where and by who(m) ?? If it was more than about two or three years ago I missed it during my inactive years.

.....Consider the Stockton bridge for SWR measurements. If I interpret it correctly the fwd and rev outputs are proportional to I-fwd and I-rev, the forward and reverse currents, respectively. Their ratio (I-rev / I-fwd) is none other than the reflection coefficient, call it "r"

And $(1+r)/(1-r) = \text{swr}$

Connect the fwd signal to the high end of the divider chain of the LM3914 bar graph display driver, ground the low end, and connect the rev signal to the comparator input. The bar graph will now display the ratio of fwd to rev, which is the reflection coefficient, and all one has to do is calculate and label the swr for each value of "r", in steps of a tenth.

That yields swr values of 1.0 1.2 1.5 1.9 2.3 3.0 4.0 5.7 9.0 19 and infinity for the ten points in the display. Make the first four points green LEDs, the next two yellow, and red for the rest. The 3915 and 3916 with their decibel steps would give different points.

The device should be self-calibrating, since as power level changes I-fwd and I-rev will change by the same ratio and the display will still be ratiometric, still showing the same "r" over a reasonable range of bridge output voltages as driving power varies.

72
Jim N5IB

BTW, a few years ago I used the 3915 (3 db steps) to build a noise meter. The outputs drove optically coupled triacs that switched 25 W lamps in a column about 3 ft high. We used it as the crowd noise meter for high school basketball games, and years later some fraternities here at LSU used it to adjudicate yell contests.

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<http://dl.www.juno.com/get/web/>.

Date: Wed, 31 Jul 2002 21:37:04 -0400

From: Dave Richards <wr3i@earthlink.net>

To: k5di@zianet.com,

"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [131228] Re: Smith Chart Answers all questions

Message-ID: <5.1.1.6.2.20020731213613.009ec150@earthlink.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

At 03:05 PM 7/31/2002 -0600, Karl F. Larsen wrote:

> (snip) (snip) "Now some day I will measure my 450 ohm ribbon
> length and with my MFJ
Antenna Analyzer measure what the real antenna impedance is with the Smith
Chart...a real useful device for a Ham QRP operator who needs all 5 watts on
the antenna. But for sure I now understand why my antenna works, and
understand how to use a Smith Chart again."

Karl, I dont understand how when you use 88 foot wire and a tuner to match
it, you expect a smith chart to get all 5 watts to the antenna???

Dave

WR3I

Date: Wed, 31 Jul 2002 20:38:29 -0500

From: Karl Heimbach <kheimbach@ev1.net>

To: qrp-l@lehigh.edu

Subject: [131229] NC-20 Output Purity - The Fix

Message-ID: <5.1.0.14.2.20020731202828.00b77188@mail.ev1.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Gang,

Turns out that Rod, N0RC, had the solution to my output purity problem. I
soldered a 15 ohm resistor between collector and emitter on the PA

transistor, connected a MFJ 259 to the antenna BNC, set the MFJ to 14.040 MHz and then rearranged the windings on L6 and L7 while watching for approximately 50 ohms on the MFJ 259. Initially, the MFJ was indicating about 85 ohms and I ended up with between 50 and 60.

I originally had the windings nice and evenly spaced, but the radio is much happier with them bunched together. I have the drive set for 4.6 watts at 14.000 MHz and 4.8 at 14.074 with a nice clean waveform at both ends.

Thanks also to Steve Weber and Dave Fifield for their suggestions.

Karl - W5QJ

Date: Wed, 31 Jul 2002 18:40:10 -0700
From: George Fremin III - K5TR <geoiiii@kkn.net>
To: Ken Newman <n2cq@dandy.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [131230] Re: [CONTEST] N2CQ QRP Contest Contest Calendar - August 2002
Message-ID: <20020801014010.GB20437@kkn.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

On Wed, Jul 31, 2002 at 09:20:53PM -0400, Ken Newman wrote:

>
> N2CQ QRP CONTEST CALENDAR
>
> August 2002
>
>
>
> North American QSO Party (CW) ...100W out or less
>
> Aug 3 - 1800z to Aug 4 - 0600z
>
> Rules: <http://www.ncjweb.com/naqprules.php>
>
> "Work Any North American Station"

These are great contests.

You can work anyone in these contests but the mults are north american stations

plus KH6. While there is not a QRP "category" QRP entries are marked in the results so it is possible to see how your score compares to other QRP scores. So in a sense there is a QRP category.

```
>
> ~~~~~
>
> North American QSO Party (SSB) ... 100W or less
>
> Aug 17 - 1800z to Aug 18 - 0600z
>
> Rules: http://www.ncjweb.com/naqprules.php
>
> "Work Any North American Station"
```

--
George Fremin III - K5TR
geoiii@kkn.net
<http://www.kkn.net/~k5tr>

Date: Wed, 31 Jul 2002 20:01:52 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Bill Coleman <aa4lr@arrl.net>
Cc: k5di@zianet.com,
Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [131231] Re: Smith Chart Use
Message-ID: <Pine.LNX.4.44.0207311953520.11904-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Bill Coleman, your so un-educated you don't even realize there are several Maxwell's and the one I taught wrote many fine equations that explain how power propagates in space many years 1850 before the first guy was able to demonstrate it with hardware.

Walt Maxwell may well be alive today.

On Wed, 31 Jul 2002, Bill Coleman wrote:

```
> On 7/31/02 8:18 AM, Karl F. Larsen at k5di@zianet.com wrote:
```

>
> >You must borrow or buy the ARRL Antenna Handbook of the last 5
> >years or so. In section 28 is a wonderful tutorial on using a Smith
> >Chart to do the feedline things I need.
> >
> > Alas, my German drawing tools that were so very nice were lost
> >about 1958. Right after a drafting class in which I was given a passing
> >grade on a promise that I never become a Civil Engineer!
>
> Uh, gosh, Karl. How is it you could have a PhD in EE, have taught
> Maxwell's equations for 12 or so years, and yet be completely unfamiliar
> with a Smith Chart?

Problem Child, when you stop using something for 30 years you forget. And you will be interested that the Smith who invented the Smith Chart did so in 1939. Maxwell wrote his equations in 1850.

>
> Seems something doesn't fit with these claims. Either that, or you're
> suffering from some sort of acute amnesia....
>
> > Very soon I will be ready to prove how the interface between the
> >feed line and the tuner reflects power back up the feedline to the
> >antenna again. Interesting stuff. Try it yourself.
>
> No one here needs any proof, Karl. Walt Maxwell's word was proof enough
> for most of us.
>
>
>
> Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
> Quote: "Not within a thousand years will man ever fly!"
> -- Wilbur Wright, 1901
>
>
>

--
Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Wed, 31 Jul 2002 21:56:16 -0400
From: "ss lyon" <sslyon@megalink.net>
To: <sjolin@swbell.net>,

"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [131232] Re: loop skywire wire size vs strength...
Message-ID: <006501c238fe\$9fedb6c0\$aac7e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I agree, Dave... don't take chances with marginal wire strength when bridging any potential danger. If you ponder potential consequences a bit, the horrors should temper all other considerations. I'd seriously consider #18 or even #16 wire, black, solid. (Home Depot, Lowes...) It's really inconspicuous and robust enough that you don't have to sweat anything but the most strenuous possible occasions. I'd advise against the tiny wire except in the MOST demanding, clandestine applications.

72
AA1MY

Date: Wed, 31 Jul 2002 20:59:57 -0500
From: "Brice D. Hornback" <bdh@cyberbound.net>
To: ke9v@yahoo.com
Cc: qrp-1@lehigh.edu
Subject: [131233] Re: Dummy Load
Message-ID: <044901c238ff\$237b6320\$6501a8c0@lwrnce01.in.comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Check out the QRPp International Radio Club's "Kits & Parts" page for a couple of dummy load resistor kits. An antenna connector isn't supplied but you can easily build one onto the end of a BNC connector.

QRPp International Radio Club
<http://www.QRPp-I.com>

73/72/71! de Brice KA8MAV
<http://www.cyberbound.net/clisby>

----- Original Message -----
From: "Jeff Davis" <ke9v@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, July 31, 2002 10:14 AM
Subject: Dummy Load

> I am looking for a dummy load that is built onto a BNC connector.
>
> I recall that somebody was selling them, but can't find the info now.
>
> Anybody have a link to such a critter?
>
> Jeff, Ke9v
>
> -----
> Do You Yahoo!?
> Yahoo! Health - Feel better, live better
> <http://health.yahoo.com>
>

Date: Wed, 31 Jul 2002 20:08:18
From: Tim and Michele Groat <tmgroat@peakpeak.com>
To: qrp-1@lehigh.edu
Subject: [131234] RE: Dummy Load
Message-ID: <3.0.3.16.20020731200818.3ac78cbe@peakpeak.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have no link, but I do have a recipe for a 1/4W to 1/2W shielded load:

Start with an **expended** .22 LR cartridge case. Please don't try opening up a live round; discharge it safely using a firearm of the proper caliber, on a safe shooting range!

Clean the cartridge case inside and out to remove all powder residue (it may be corrosive). A Q-tip and gun cleaning solvent will do the trick. Then use rubbing alcohol on another Q-tip to rinse off the solvent.

Clamp the cartridge case in a vise. Drill a hole in the center of the case backside to fit the lead of a 51 ohm, 1/4W or 1/2W resistor.

Take a BNC connector, and clamp the gland nut in the vise. Then drill it out so the cartridge case is a snug fit (a drill size or two larger than the original hole in the gland, if it's RG-58 size).

Solder the case into the enlarged hole of the gland nut, so the backside of the case will stick out of the assembled BNC. Let it cool.

Attach the BNC center pin to the resistor lead, about 1/8" from the resistor body. Place the pin into the connector body.

Slide the gland/cartridge case over the free resistor lead and screw it onto the BNC connector body. Make sure the center pin is positioned properly (not too long, not too short). Then solder the lead to the cartridge case. Trim off the excess lead, and it's done!

And there you have it...the only good use I've found for old .22 brass!

72/73,

--Tim, KR0U

Jeff Davis <ke9v@yahoo.com>:

>

> I am looking for a dummy load that is built onto a BNC connector.

>

> I recall that somebody was selling them, but can't find the info now.

>

> Anybody have a link to such a critter?

>

Date: Wed, 31 Jul 2002 22:11:01 -0400

From: "T.J. \"Skip\" Arey N2EI" <tjarey@tjarey.com>

To: QRP-1 <qrp-1@lehigh.edu>

Subject: [131235] MRX-40 question

Message-ID: <5.1.0.14.0.20020731220852.00a11910@mail.tjarey.com>

MIME-version: 1.0

Content-type: text/plain; charset=us-ascii; format=flowed

Content-transfer-encoding: 7BIT

I recall some mention a while back about winding the L1 and L2 chokes on toroids as opposed to using molded chokes. Any thoughts on the preferred toroid and winding scheme???

+++++

T.J. "SKIP" AREY N2EI

Specialization is for insects! LAZARUS LONG

Date: Wed, 31 Jul 2002 21:08:13 -0500

From: "George, W5YR" <w5yr@att.net>
To: kd1jv@moose.ncia.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131236] Re: Is homebrew for you?
Message-ID: <3D48980D.74C0983F@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Steve, I feel the same way about scope monitoring of audio and r-f. It is easy to set up, costs relatively little and lets you know what you are really doing with your station.

I use an inexpensive little Goldstar 20 MHz dual-trace scope to monitor on one trace all the transmit audio that goes out and all the receive audio that I listen to. The other trace shows the r-f output envelope so that I can monitor keying waveforms, PSK31 modulation, SSB, etc. The frequency response is adequate for all HF bands since you are interested in the modulation envelope and seldom need to see individual carrier cycles.

Plus, a scope makes an excellent voltmeter: high input Z, wide range, can be readily calibrated, a-c, d-c and r-f, etc. etc.

You said it very well: "without a scope you really are fumbling around in the dark . . ."

73/72/00, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

Steven Weber wrote:

>
> Not having a 'Scope is probably the biggest reason people can't get stuff
> to work. Without one, you really are fumbling around in the dark without a
> clue as to what is or what is not going on!

Date: Wed, 31 Jul 2002 20:09:32 -0600
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [131237] trac- te-133 keyer
Message-ID: <20020731.200935.-138337.11.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hello group: anyone happen to have info, maybe schematic for a Trac Engineering TE-133 CMOS Keyer? I have recently come into possession of one, works well, but would like to get some info on the unit. Seems to have been made in the Buffalo NY area perhaps in the late 80's - early 90's. Thanks

Ray

"The more you read about politics, you got to admit that each party is worse than the other. The one that's out always looks the best." -Will Rogers
Ray Colbert, W5XE, 00TC#3618, SOWP#1064M
NARTE-NCT2R QRP-ARCI 5784, El Paso, (FAR WEST) TEXAS

Date: Wed, 31 Jul 2002 21:11:13 -0500
From: "George, W5YR" <w5yr@att.net>
To: w6toy@erols.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131238] Re: Is homebrew for you?
Message-ID: <3D4898C1.B5D196E4@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bruce, I wonder if you could take an extra few seconds and indicate to whom your remarks are directed? You never quote anyone or address anyone by name, and I can never tell who you are talking to or about.

Thanks!

73/72/oo, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

Bruce Muscolino wrote:

>
> Well, you have the right ideas. Esoteric parts should be avoided until
> you can master the basic ones. You shouldn't be messing with exotic
> spices until you have mastered salt and pepper!
>

> Where many homebrewers go wrong is they have built a few kits and think
> they know it all, or they assume everything is just a big kit! They
> pick a project from their favorite magazine and jump in. More often
> than not they have a smoking mess on their hands.
>
> If, instead they had spent some time learning they would not make those
> mistakes. BTW, this applies to professional engineers as much as to
> home builders. They don't teach homebrewing in college, just as they
> don't teach mechanical assembly there either!
>
> 73

Date: Wed, 31 Jul 2002 22:43:18 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131239] Re: Smith Chart Use
Message-ID: <20020801024452.RNCN2463.imf02bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/31/02 10:01 PM, Karl F. Larsen at k5di@zianet.com wrote:

>
>Bill Coleman, your so un-educated you don't even realize there are
>several Maxwell's and the one I taught wrote many fine equasions that
>explain how power propogates in space many years 1850 before the first
>guy was able to demonstrate it with hardware.

I am fully aware of the difference between James Clerk Maxwell and Walter Maxwell.

I take offense that you would accuse me of being uneducated. In addition to holding a bachelor's degree, I have persued a lifelong process of continuing education. Indeed, I can even spell the word "equations" properly.

Oh, and the guy who demonstrated the waves predicted by James Clerk Maxwell's equations was a fellow named Heinrich Hertz. Perhaps you've heard of him?

Uneducated. Pah!

>Walt Maxwell may well be alive today.

Indeed, I believe he is.

>On Wed, 31 Jul 2002, Bill Coleman wrote:
>> Uh, gosh, Karl. How is it you could have a PhD in EE, have taught
>> Maxwell's equations for 12 or so years, and yet be completely unfamiliar
>> with a Smith Chart?
>
> Problem Child, when you stop using something for 30 years you
>forget. And you will be interested that the Smith who invented the Smith
>Chart did so in 1939. Maxwell wrote his equations in 1850.

So, you're telling me you have forgotten all electrical engineering that
happened after 1850?

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Wed, 31 Jul 2002 20:09:13 -0700
From: "Steve McDonald" <jsm@gulfislands.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [131240] Wyoming Skeds
Message-ID: <000c01c23908\$d3be9780\$6211f4cc@jrm>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Doug...Please add me to the list ...I need Wyoming for # 46 with my 20m Tuna
Tin.
BTW...Wyoming was my final state for W.A.S. with my original 40m Tuna Tin.
It appears that Wyoming is a QRP-challenged state!

Steve / VE7SL

Date: Wed, 31 Jul 2002 21:48:17 -0500
From: Chuck Carpenter <w5usj@9plus.net>

To: tjarey@tjarey.com,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131241] Re: MRX-40 question
Message-ID: <3.0.2.32.20020731214817.006b7d04@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Skip,

I'm using toroids for better quality better control of inductance and I like to wind them.

L1 = 34 turns #28 on a T50-6 -- spread about evenly on core

L2 = 7 turns #28 on an FT37-43

Email Alt: w5usj@arrl.net, w5usj@go.com

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, NETXQRP <http://www.netxqrp.org>

Date: Wed, 31 Jul 2002 23:05:00 +0000
From: ve3ab@mail.mondenet.com
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131242] Re: OT - Windows 95 on floppies?-Using LAPLINK<
Message-ID: <200208010307.g7137960002621@phlox.mondenet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I found Laplink very easy to use and not for the faint of heart ect.
For an older computer w/o USB and no CD and no easy way to hook up
a CD..use of Laplink to communicate computer to computer via the
parallel port is quite easy. Its not all that fast..but it worked for
me. I bought a Pentium Aptiva 233 mmx laptop at a garage sale for
\$8.00. The thing had been rained on. I bought a floppy drive and new
HD for it.,My \$8.00 bargain laptop was now up to about \$200.00.
I tried cleaning the keyboard with alcohol and guess what! It is
basically useless now!-so I use an external keyboard. So my laptop is
only semi portable now!-The battery never worked either. Rather than
put more money into it..I skipped buying a CD Rom. I got Laplink..at
a computer garage sale..for a bargain \$10.00. It worked great.
Installed windows 95 and some other applicatiions using a desktop
computer. I can still take the laptop into work and run it there
using one of the old keyboards at work..so my \$200.00 is of some

value..I guess its a case of live and learn. But when I look at the prices of the new laptops..really \$200.00 spent not all that bad.73
Earl VE3AB

Date: Wed, 31 Jul 2002 22:19:02 -0500
From: "pschweit" <pschweit@mninter.net>
To: <doug@ycsi.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [131243] Re: Wyoming for QRP'ers?
Message-ID: <001d01c2390a\$4b11a920\$bbe6add1@pschweit>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

any possibility on ssb qrp operation?

I am planning to operate during the Colorado qrp sprint and working on qrp was ssb. <http://www.cqc.org/contests/summer02.htm>

15 ssb is my current planned choice.

de KA0PGQ. MN

rob

----- Original Message -----

From: Doug <doug@ycsi.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Wednesday, July 31, 2002 4:10 PM
Subject: Wyoming for QRP'ers?

> I've seen some comments stating a need for a qso from WY to fill out your WAS
> awards. If there's sufficient interest, I'd go mobile down to Yellowstone Park
> for
> a few hours and work as many as I can on CW from my pickup.
>
> It's 80 miles one way from my home, so want to make it worth the trip.
Any
> takers?
> Probably go in Sept after the kids go back to school.
>
> 73
>
> Doug, K7YD

> Livingston, MT
>
>

Date: Wed, 31 Jul 2002 23:21:42 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: "George, W5YR" <w5yr@att.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131244] Re: Is homebrew for you?
Message-ID: <3D48A946.533E9A1B@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

George,

I never quote anyone. The person I am addressing is the one who wrote the original post!

I think the material should be pretty much self explanatory. I recommend reading and research on any project, whether it is an antenna or a transceiver. If you don't know what to expect from the circuits, you will never know if you are getting it!
73

Date: Wed, 31 Jul 2002 20:22:53 -0700
From: "Bill Walker" <wv7g@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131245] Re: Smith Chart Use
Message-ID: <006c01c2390a\$c8678980\$020aa8c0@pluto>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

On Wed, 31 Jul 2002, Bill Coleman wrote:

> I take offense that you would accuse me of being uneducated.

Bill, I find that statement rather interesting. I believe it was you who insinuated the same in reference to Karl at least twice that I counted. Is this the pot calling the kettle black?

Isn't it about time, gentlemen, that we all act our ages and stop with the childish insults? Please?

73,

Bill Walker - WV7G

Date: Wed, 31 Jul 2002 23:25:30 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: n2cq@dandy.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [131246] Re: [CONTEST] N2CQ QRP Contest Contest Calendar - August 2002
Message-ID: <3D48AA2A.24C22EEC@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Notice that there are FOUR state QSO parties in this months list of contests!

>
> N2CQ QRP CONTEST CALENDAR
>
> August 2002
>

Date: Wed, 31 Jul 2002 23:28:42 -0400
From: "Marty N5NW" <n5nw@n5nw.org>
To: "QRP" <qrp-1@lehigh.edu>
Subject: [131247] Magazines for sale
Message-ID: <NGBBIMJEELMGMPMHEAGKELJCBAA.n5nw@n5nw.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have Spring 1997 through Winter 1999 QRPP (12 issues in total) and April 1997 through April 2001 QRP Quarterly (17 issues total). I'll throw in the April 1993 QRP Quarterly for free ...

Best price by the close of NAQP CW this weekend gets them.

--
73 de N5NW/8 (Marty)

Bellbrook, Ohio

Date: Wed, 31 Jul 2002 22:36:36 -0500
From: "Brian" <brian@iquest.net>
To: <w6toy@erols.com>,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [131248] Re: Is homebrew for you?
Message-ID: <001b01c2390c\$a4a12450\$4e302bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ahhhh but Bruce...in the methods of scientific discovery, aren't we first suppose to develop a hypothesis of what we THINK should happen?

Then compare that hypothesis to the actual results. By comparing the two, we learn certain things.

----- Original Message -----
From: "Bruce Muscolino" <w6toy@erols.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, July 31, 2002 10:21 PM
Subject: Re: Is homebrew for you?

>
> George,
>
> I never quote anyone. The person I am addressing is the one who wrote
> the original post!
>
> I think the material should be pretty much self explanatory. I
> recommend reading and research on any project, whether it is an antenna
> or a transceiver. If you don't know what to expect from the circuits,
> you will never know if you are getting it!
> 73
>
>

Date: Wed, 31 Jul 2002 15:36:18 -0700
From: Thomas <ac7a@gci-net.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131249] The Other Fox Aug. 1st
Message-ID: <3D486662.1FDB30D1@gci-net.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Howdy,

If this post appears more than once I apologize. I have been having problems posting to QRP-L.

Tomorrow night, Aug. 1st, I am the other FOX. My plan is to operate near 14.060MHz, and listen up 1 to 2KHz. If there are stations already operating on this frequency, I will adjust mine as not to interfere with them. I may at some point call by zone; to give very weak stations a chance.

I have two antennas, a vertical and a very low dipole. Hopefully conditions will permit me to work some of the close in stations using the dipole.

Best of luck, Thomas - AC7A (Tucson)

Date: Wed, 31 Jul 2002 23:43:35 EDT
From: RLucch2098@aol.com
To: qrp-l@lehigh.edu
Subject: [131250] FS: ARRL Universal CW Transmitter w/pic
Message-ID: <112.150b2839.2a7a0867@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Fellas;

I have for SALE:

1- ARRL Universal transmitter for CW.

I don't know what band its for but I had a 7.728 xtal so I connected it to a small metered DL & put 12vdc on it. I was listening on my SW receiver & heard

a quick tone, then nada. This occurred each time I either keyed it or connected power. Might be my xtal was not oscillating, who knows :-)
Anyway there are 7 xsisitors with 6 or them being 2N2222A's. That alone is worth the \$18.00ppd.

http://www.myradioroom.com/arrlxmtr1.jpg

http://www.myradioroom.com/arrlxmtr2.jpg

Thanks es 73....Rich WA2RQY (1961)
RLUCCH2098@aol.com
"Keep those heaters on"

Date: Wed, 31 Jul 2002 21:47:52 -0600
From: "P.Ermisch" <ermisch@usa.net>
To: <qrp-l@lehigh.edu>
Subject: [131251] Re: [Protocol for CHN?]
Message-ID: <20020801034752.16901.qmail@uwdvg001.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

http://www.countyhunter.com/marac_information_package.htm

The net is pretty straightforward but I do recommend listening for awhile= so
you understand the rhythm. Relays are common, so if you don't mind the h= elp,
you can get the really weak ones that way. The SSB net is run more tight= ly
than the CW net, in my opinion. If K2JG is net control (SSB only), make = sure
you follow the protocol - he runs a tight ship and lets you know if you'r= e not
'on board' :)

FYI, you can get more wallpaper if you join MARAC (mobile amateur radio a= wards
club) but you don't need to be a member to participate in the net. The n= et is
NOT run by MARAC and net controllers are voluntary. I don't speak for MA= RAC
so I apologize if I've communicated the wrong info here.

Larry has given some good info about the amount of traffic available on t= he

net. The CW net is not as active as the SSB net but you can usually catch something on that freq if you just listen for a bit. The SSB net will easily run constantly between 1200UTC to 2400UTC or longer. The roster may run 10 or more stations deep sometimes. 99.9% of the time, the counties are given out by mobile stations. If things are really slow, a fixed station may offer to run a county but that's pretty rare. It's not a rule I've seen but, in practice, it seems you should be mobile to be the 'prey' on the net rather than the 'hunter'.

Agree with Larry about 'no rare states' on the net - except HI, I haven't heard that one yet. Of course, the more you listen and participate, the more you'll hear.

73, Paul KB0LUR

Kenneth Hoglund <hoglund@wfu.edu> wrote:

> Larry and Paul--

> =

> Could you let us know how the County Hunters Net functions, or direct us to a website that explains the net protocols? I assume we can't just

> 'crash in' when we hear a station from a locale we need.

> =

> =

> 73

> Ken KG4FGC

> =

Date: Wed, 31 Jul 2002 23:26:04 -0500

From: Dave Hottell <hottell@gulftel.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [131252] Re: Smith Chart Use
Message-ID: <3.0.6.32.20020731232604.00d76ea0@pop.gulftel.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Karl,

The problem here is your consistant and persistant refusal to acknowledge that anyone on the the list, and presumably anyone anywhere, is more knowledgable on a subject than you. You won't even allow that the authors of books that have been in circulation for decades could possibly be right without your personal stamp of approval. They may not be perfect, and there may be a few errors in their work, but they know lots more than you do, so no need for the rest of us to wait for your 'approval'.

As Bill points out, this stuff is old hat to many on here. It has been known for decades. Not everyone knows it, certainly, and you're among the group that doesn't. But no one on the list asked for a lecture on the Smith Chart. If someone wants to learn this, they are going to have to refer to a tutorial on the it; your posting is completely inadequate to familiarize anyone with the it. So we'll direct them to the Antenna Book or one of the other good references on the subject. If they have questions after that then all can help answer those.

Some folks on here have spent a lot of time providing you the truth over the past few weeks; there has not yet been any appreciable sign of gratitude on your part. Folks get tired of helping you and then being insulted. Note that virtually all others on the list are quick with a "Thanks".

So instead of being so arrogant and mean in your replies to those who provide advice and (correct) information, why don't you try saying "Thanks, I either didn't know that or had forgotten it".

While I am not an EE, I had fraternity brothers who were, and as I recall they spent many, many hours pouring over the Smith Chart. I believe they spent most of one semester in intensive use of that device in one design class. I find it not credible that someone could have spent that much time with the Smith Chart and then so totally and completely forget -- as witnessed by your writing. Maybe other's experiences are different. But I dunno . . . Let's go ask Alan Greenspan questions about Econ 101 and see if he says he completely forgot all that 'cause he works mostly with Monetary Theory.

Even though I am not an EE I had a brief intro to the Smith Chart back then (the 60's) in one of my classes, and still remembered at least parts of it 30 years later. I read through the Antenna Book and Walt Maxwell's writings, and all I ever studied came back, plus plenty more.

Fortunately, a ham's lack of knowledge does not interfere with the laws of physics. A tuner and transmission line work the same for the unknowing ham as it does for the 'expert' (dare I use that word?).

73,
Dave
AB9CA/4

At 08:01 PM 7/31/02 -0600, Karl F. Larsen wrote:

>
>Bill Coleman, your so un-educated you don't even realize there are
>several Maxwell's and the one I taught wrote many fine equasions

<snip>

Date: Wed, 31 Jul 2002 21:40:12 -0700
From: Conrad Weiss <radman@best.com>
To: "'n5ib@juno.com'" <n5ib@juno.com>,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131253] RE: SWR indicator with LM3914
Message-ID: <01C238DA.DA888040@209-162-48-185.thegrid.net>

Hi Jim,

Hmmm, an LM3914 SWR indicator w/ a wad of LEDs? ... Sounds useful :)!

I thrashed thru Google and came up w/ a number of 3914 applications for power measurement (audio & RF), Peak Power conversion schemes and even a QRP LED watt meter... but I couldn't find a reference to a 3914/SWR bridge. Seems quite feasible, given the popular use of LEDs in the "Rainbow Tuner", the ZM-2, the BLT, etc.. AFAIK, we just haven't seen application you dreamed up :)!

Your postscript re: the LSU Basketball "Scream-O-Meter" seems eminently practical. Presuming Steve "Melt Solder" Weber and Doug "3-Point" Hendricks are reading this post - no telling what Altoids kits we might see next ;)!

Fun stuff,

Conrad Weiss
NN6CW

From: n5ib@juno.com[SMTP:n5ib@juno.com]
Sent: Wednesday, July 31, 2002 6:28 PM
To: Low Power Amateur Radio Discussion
Subject: SWR indicator with LM3914

OK gang, while monitoring a 2-hour physics final exam today I whiled away the time thinking... and that can be dangerous :^))

DISCLAIMER: Now, surely this has been thought up before ...

//snip//

Date: Wed, 31 Jul 2002 21:54:47 -0700
From: "Doug Hauff" <dhauff@digitalputty.com>
To: <qrp-l@lehigh.edu>
Subject: [131254] Win 95 help - Thanks!
Message-ID: <003c01c23917\$8fddbd20\$9d393442@fix.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Wow! What a bunch! A whole lotta responses to me for help with my laptop!
Thanks Everybody! One way or another I'll get it handled!

72,

Doug KE6RIE

Date: Wed, 31 Jul 2002 22:01:39 -0700
From: "Doug Hauff" <dhauff@digitalputty.com>
To: <qrp-l@lehigh.edu>
Subject: [131255] Old QST's - 30's, 40's, 50's...
Message-ID: <004401c23918\$86395da0\$9d393442@fix.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Got a couple boxes of old QST mags, a few dozen from the thirties, some from

forties and fifties...a bit musty...anyone want 'em? kinda heavy to ship...but I don't need 'em and trying to get rid of old ---t...

72,

Doug Hauff KE6RIE

Date: Wed, 31 Jul 2002 22:13:35 -0700
From: Conrad Weiss <radman@best.com>
To: "'Jeff Davis'" <ke9v@yahoo.com>,
Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [131256] RE: Dummy Load
Message-ID: <01C238DF.845DD6C0@209-162-48-185.thegrid.net>

Hi Jeff,

BNC "dummy load" connectors are commonly available in the form of network terminators. Jameco and many others stock this part. They run ~ \$1.00 ea for a 50 ohm terminator. I use them for QRP work, and have never smoked one - 'tho you can't stand on your straight key very long ;) They do get hot!

But.... the dummy load that gets the most use 'round my QTH & in the field is the RS #21-506. Little black cylindrical dummy load w/ heat fins & a PL-259 - which you can easily adapt to BNC w/ the proper coupler. It's rated at 15w continuous, and it will go all day at 5w, and does fine at 100w for 30 second tests - not that any of us would do that ;) Very cool load - tho' I'm not sure that RS still sells it.

GL es best,

Conrad Weiss
NN6CW

From: Jeff Davis[SMTP:ke9v@yahoo.com]
Sent: Wednesday, July 31, 2002 1:14 AM
To: Low Power Amateur Radio Discussion
Subject: Dummy Load

I am looking for a dummy load that is built onto a BNC connector. I recall that somebody was selling them, but can't find the info now. Anybody have a link to such a critter?

Jeff, Ke9v

Date: Thu, 01 Aug 2002 01:41:09 -0400
From: Mike Czuhajewski <wa8mcq@comcast.net>
To: qrp-1@lehigh.edu
Cc: wa8mcq@comcast.net
Subject: [131257] Re: SBL-1
Message-ID: <000601c2391e\$0ae86640\$6401a8c0@gambrl01.md.comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

A better term to use with passive mixers is conversion loss. "Conversion gain" is still technically correct, although the numbers would then be preceded by a minus sign. The output of a passive mixer will always be at a lower level than the inputs.

There's another alternative to the SBL-1 and it's much cheaper, although you may find the mechanical aspects unsuitable in your application. A few years back someone at the NJQRP club mentioned that they were developing a kit (the SOP receiver) and were trying to find a good, inexpensive mixer. The SBL-1 was a bit pricey. I suggested that they check out the ADE series from Minicircuits, which had been recently introduced, and they settled on the ADE-1. The specs are similar to the SBL-1 et al. The Minicircuits page shows the current price as \$1.99 each, in quantity of 100.

This mixer is in a surface mount package, which may or may not be suitable in your case. It's also a very inexpensive plastic package, which helps keep the price down. It's not metal, and it's not even sealed or closed up; the underside is completely open--all components are plainly visible. Whether those are drawbacks or not is also application dependent, but shouldn't be a problem for run of the mill HF ham equipment. Not everything we build requires a shielded mixer, and I've never yet had a problem with spiders and vermin trying to crawl inside mixers and short them out :-)

73 and queue our pea DE WA8MCQ

Date: Thu, 1 Aug 2002 16:47:01 +1000
From: "Adam" <jabba@w3.to>
To: <randallr@healthall.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [131258] Re: Things that didn't work (long)
Message-ID: <010f01c2393b\$9b28ef00\$0b108aca@kids>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey I know a bloke who still has a DSE Commander on 2m, uses it regularly.
He didn't build it but he has never had a problem with it.

He could have been lucky though, its not what you would call state of the
art :-)

Adam VK4LAJ
<http://www.qsl.net/vk4laj>

----- Original Message -----

From: "Randy Randall" <randallr@healthall.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Thursday, August 01, 2002 1:19 AM
Subject: Re: Things that didn't work (long)

> I have built many, many kits and only one has beaten me. The worst kit
> I ever built was the Dick Smith 2 meter transceiver. What a dog! The
> PLL never did lock except for a 500 Khz segment of the band. I must
> have burned 200+ hours on the blasted thing and never got it to work any
> better. It is loooong gone.

>
> Randy KB8AS0

>
> >>> Nick Kennedy <nkennedy@tcainternet.com> 07/30/02 22:19 PM >>>
> I thought to clear the smoke from all that conjugate matching stuff, I'd
>

> change directions a bit. Ever build something that you just couldn't
> get

> to work? Had to hang your head in shame around your QRP-L buddies?

> Well,

> you're not alone. I've decided to summarize a few of my disasters in
> the

> epic ...

>
> Things that didn't work

>
> Isn't it discouraging to sit and read reports from proficient technical
> types about their multi-band superhets with tunable crystal filters that

>

> they just whipped up over the weekend for lack of anything better to do?
> I
> wonder if those guys ever have anything NOT work? I've got a pretty
> good
> history of them, for a guy who can take a week to assemble an RF probe
> using one diode and one capacitor.
>
> Back around 1979, when 2 meter FM was the technical frontier, I thought
> it
> would be cool to build a handy-talkie. (Handy if you're King Kong, that
>
> is.) I cheated on the receiver by using a surplus Hy-Gain scanner
> board.
> The TX was a three transistor wonder from the '76 handbook. Never did
> get
> that sucker to work except maybe for a few seconds, despite countless
> hours
> at the workbench. I heard later that the design was just too
> "minimalist"
> to be reproducible. But that failure fixed in my mind the notion that
> RF
> is black magic and drove me over into the digital world for quite a few
> years.
>
> When software controlled RTTY became easily available for your Apple,
> Commodore, Atari or IBM PC a couple years later, I had to try building
> the
> interface. A simple design with just a couple chips to decode the mark
> and
> space. This one did almost work ? a little. Just enough to convince me
>
> I'd better buy a commercial unit.
>
> Then there was the S-120, a cheap low-performance Hallicrafters unit I'd
>
> used years ago. It's the standard radio they use in hell. The
> Anti-Radio.
> Surely with the knowledge I'd gained with years, I could make it a real
>
> BFO so the CW note wouldn't sound like a frog gargling, and replace the
> transformerless power supply to get rid of the deafening hum. Did all
> that, burning a week of hobby time. Still sounds exactly the same.
> Back
> to the attic with you, you squalling abomination!
>
> A few years ago, I caught balanced line fever, as we all do at one time
> or
> another. Hey, I've got some big B&W stock in the attic. Why not build

> a
> balanced tuner with a balanced link coil as its heart? It had taps to a
>
> switch mimicking the Matchbox and a couple variable capacitors. The
> first
> trial looked OK. Loaded up on a couple bands. OK, now crank the
> FT-1000
> to the full 200 watts out. There was a violet spark, the FT-1000's
> meters
> danced in fear, and the contacts on the inductor switch disappeared. I
> guess I could have overcome this one, but right then a real Matchbox on
> eBay was starting to look good and you know the rest.
>
> There was a neat circuit in Radio-Electronics magazine allowing you to
> measure low resistances. It briefly pulsed a 1 amp current through the
> resistor and an op-amp configured as a peak-hold circuit captured the
> resulting voltage drop. Built it up on a perf board, turned it on, and
> the
> op-amp went to the rail and stayed there. Don't have a good story for
> this
> one since I never did figure out why it doesn't work.
>
> I built a frequency counter from an old QST series back in the 70's,
> etching my own boards and the whole works. It worked great for a while,
>
> but degraded over time due to my novice style construction practices,
> largely in the power supply section. I set about re-building that
> portion
> and after several hours of planning and working, it came to life. The
> display was stable and accurate. That's a great feeling. I stood up
> and
> stretched and took a brief walk outside while considering that all I had
> to
> do was to put the boards back in and reassemble the case. The birds
> sang
> and the world was in harmony.
>
> When I reentered the house, my first indication of trouble was a thin
> laminar layer of blue smoke hanging two feet below the ceiling. And I
> wasn't baking a pie. The smell told the story. I'd know it anywhere,
> flambe de transformer insulation. You might think that correcting the
> short and replacing the transformer would have been a quick fix-but that
>
> frequency counter hasn't been the same since.
>
> Then there was the Heath GR-91 a friend and I built for his first novice
>
> receiver. I was a year older (15) and had been licensed a year longer,

> so
> I bore some leadership responsibility. We soldered every joint with the
>
> Weller gun and checked off every step. Then ? nothing. Just a few tiny
>
> warbles of sound trying to escape the speaker, but nothing else, ever.
> Nearly forty years later it's still sitting on the shelf in his garage.
>
> Guess it's a little late for Heath's "We won't let you fail" guarantee,
>
> eh?
>
> So if you visit my shack, I'll proudly point out several gizmos I've
> built,
> all functional and useful and each with its story. But now you know the
>
> dark tale of my homebrew graveyard. But to end on an upbeat note, let me
>
> leave you with a quote from JF10ZL's excellent QRP/homebrew website:
>
> "Failure is the mother of the success. Make your notebook! My projects
> informed on my home page becomes more than a hundred. I have 50
> notebooks
> of my idea about handmade. I informed only successful projects of my
> notebook on my homepage. Therefore ninety percent of ideas was failed.
> But
> I enjoyed all of my ideas. Some of the successful projects was born from
>
> the failed idea. We have the proverb , "Failure is the mother of the
> success." in Japan. You may write your notebook not to record your
> successful porjects, but raise your new idea."
>
> Amen.
>
> 72--Nick, WA5BDU
>
>
>
> Received: from localhost.localdomain ([127.0.0.1]:19471 "HELO
> astro.CC.Lehigh.EDU") by astro.CC.Lehigh.EDU with SMTP
> id <S381256AbSGaPYM>; Wed, 31 Jul 2002 11:24:12 -0400
> Received: from ironmail1.cc.lehigh.edu ([128.180.39.26]:28683 "ehlo
> ironmail1.cc.lehigh.edu") by astro.CC.Lehigh.EDU with ESMTTP
> id <S381252AbSGaPXx>; Wed, 31 Jul 2002 11:23:53 -0400
> Received: from ([128.180.39.20])
> by ironmail1.cc.lehigh.edu with ESMTTP with TLS;
> Wed, 31 Jul 2002 11:21:54 -0400 (EDT)
> Received: from ironmail1.cc.lehigh.edu (ironmail1.cc.lehigh.edu

[128.180.39.26])
> by rain.CC.Lehigh.EDU (8.12.4/8.12.4) with ESMTTP id g6VFLorw016105
> (version=TLSv1/SSLv3 cipher=EDH-RSA-DES-CBC3-SHA bits=168
verify=NOT)
> for <qrp-l@lehigh.edu>; Wed, 31 Jul 2002 11:21:53 -0400
> Received: from ([66.75.160.16])
> by ironmail1.cc.lehigh.edu with ESMTTP ;
> Wed, 31 Jul 2002 11:21:14 -0400 (EDT)
> Received: from PeterShores (sc-24-165-65-240.socal.rr.com [24.165.65.240])
> by orngca-mls01.socal.rr.com (8.11.4/8.11.3) with SMTP id
g6VFLDA09858
> for <qrp-l@Lehigh.EDU>; Wed, 31 Jul 2002 08:21:13 -0700 (PDT)
> Message-Id: <000901c238a5\$53146500\$9e00a8c0@socal.rr.com>
> Date: Wed, 31 Jul 2002 08:17:03 -0700
> Reply-To: pshores@socal.rr.com
> Sender: owner-qrp-l@Lehigh.EDU
> Precedence: bulk
> From: "Peter Shores" <pshores@socal.rr.com>
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> Subject: Yaesu FT-709R
> MIME-Version: 1.0
> Content-Type: text/plain;
> charset="iso-8859-1"
> Content-Transfer-Encoding: 7bit
> X-To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
> X-Priority: 3
> X-MSMail-Priority: Normal
> X-Mailer: Microsoft Outlook Express 5.50.4133.2400
> X-MIMEOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
> X-Listprocessor-Version: 8.1 beta -- ListProcessor(tm) by CREN
>
> Hi,
> I picked up this hand held for my son. I did not get operation manual. I
> would like to know how to change the channel spacing /steps. Currently
radio
> is in 25KHz mode and I have tried various key pad moves to change it, but
no
> luck. Southern Calif. repeaters are on 20KHz splits and this is somewhat
of
> a problem.
>
> Any info /help is appreciated.
>
> Thanks
>
> Peter AD6TN

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Checked by AVG anti-virus system (<http://www.grisoft.com>).

Version: 6.0.380 / Virus Database: 213 - Release Date: 24/07/02

Date: Thu, 1 Aug 2002 19:11:23 +1000

From: "Adam" <jabba@w3.to>

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [131259] Wire wound resistors and artificial antenna

Message-ID: <011201c2393b\$afea0b40\$0b108aca@kids>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hi all,

I realise that the artificial antenna I am doing to describe is probably more suited to higher power operations than what some of you may use, but I thought I would throw it into the ring and see what comments come out.

Recently I built a 270 watt artificial antenna out of 54 - 2.7K wire wound resistors. I had all of the gear to build it, except the resistors, which only cost around \$13. I even put a computer fan on the end of the PVC pipe for good measure. There is a photo of the artificial antenna at the following links (I will tidy up the page when I get a chance.)

<http://www.qsl.net/vk4laj/temp/Image001.jpg>

<http://www.qsl.net/vk4laj/temp/Image002.jpg>

<http://www.qsl.net/vk4laj/temp/Image003.jpg>

<http://www.qsl.net/vk4laj/temp/Image004.jpg>

<http://www.qsl.net/vk4laj/temp/Image005.jpg>

<http://www.qsl.net/vk4laj/temp/Image006.jpg>

<http://www.qsl.net/vk4laj/temp/Image007.jpg>

<http://www.qsl.net/vk4laj/temp/Image008.jpg>

<http://www.qsl.net/vk4laj/temp/Image009.jpg>

<http://www.qsl.net/vk4laj/temp/Image010.jpg>

Basically the argument has always been that you can not use wire wound resistors for an artificial antenna. Though this may be true for say 6m and up, for H.F. it should be OK.

The load that I built has been tested up to the 6m band, and has a resistive load of 50.2 ohms, giving an indicated SWR of 1.2:1. Now I know that this should be a purely resistive, which it isn't (because of the inductance in the wire wound resistors). But inductance works in a similar way to resistance, the more resistors in parallel the lower the resistance, therefore the more resistors in parallel the lower the inductance. I have not measured the inductance of one of these resistors but it would be negligible, particularly when you get 54 in parallel.

I wonder if anyone else has built a load such as this and if anyone has adapted one for QRP work.

Comments

Adam VK4LAJ
<http://www.qsl.net/vk4laj>

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Version: 6.0.380 / Virus Database: 213 - Release Date: 24/07/02

Date: Thu, 01 Aug 2002 05:43:02 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: Brian <brian@iquest.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131260] Re: Is homebrew for you?
Message-ID: <3D4902A6.32D5762E@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Brian,

This time I will include your quote. Yes, we are supposed to have a very complete idea of what the circuit will do. This is NOT a hypothesis, but instead it should be a certainty.

Nothing in electronics design is a hypothesis except for the first time something is designed, and that varies with the skill and experience of the designer.

Imagine an engineer at Yaesu saying, "I have a hypothesis that we could build a small transceiver." No, he would say, in response to a management decision to investigate the project, yes, we can do it, or no we can't!

Hypotheses only apply to human behavior!

Now, what I said was that you should have a good idea of what a design should be doing. A better idea than "it should hear hams!" This idea will vary with your experience, and design knowledge. The more you study, and the more you build, the better your idea and knowledge of how it should work!

73

>
> Ahhhh but Bruce...in the methods of scientific discovery, aren't we
> first suppose to develop a hypothesis of what we THINK should happen?
>
> Then compare that hypothesis to the actual results. By comparing the
> two, we learn certain things.
>
> ----- Original Message -----
> From: "Bruce Muscolino" <w6toy@erols.com>
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> Sent: Wednesday, July 31, 2002 10:21 PM
> Subject: Re: Is homebrew for you?
>
> >
> > George,
> >
> > I never quote anyone. The person I am addressing is the one who
> wrote
> > the original post!
> >
> > I think the material should be pretty much self explanatory. I
> > recommend reading and research on any project, whether it is an
> antenna
> > or a transceiver. If you don't know what to expect from the
> circuits,
> > you will never know if you are getting it!
> > 73
> >
> >

Date: Thu, 01 Aug 2002 10:38:31 +0200
From: Ingo Meyer DK3RED <dk3red@t-online.de>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [131261] Re:
Message-ID: <3D48F387.4D12AAE7@t-online.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello David,

> By the way, I used six 2W, 300-ohm resistors in my version. I think you
> meant four 200-ohm resistors?

Ups, yes. I looked again in the QHB and there are four 51-ohms resistors,
but this will not work. 200 ohms are the right one.

--

72/73 de Ingo, DK3RED Don't forget: the fun is the power!

dk3red@t-online.de <http://www.t-online.de/~dk3red>
DL-QRP-AG #824 <http://www.dl-qrp-ag.de>

Date: Thu, 1 Aug 2002 06:18:10 -0400
From: "Pastor-KC1DI" <elbc@pivot.net>
To: <ratttray@gpfn.sk.ca>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [131262] Re: loop skywire wire size vs strength...
Message-ID: <009f01c23944\$be0ede40\$6faaba42@dor>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Bruce Ratttray" <ratttray@gpfn.sk.ca>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, July 31, 2002 13:39
Subject: loop skywire wire size vs strength...

>

> I'm considering trying a Loop Skywire around our small city lot...I would
> like it to be as stealthy as possible so I'd like to use small wire...I
> have a roll of #27 & #29 enamelled wire...I'm just wondering if this wire
> will be strong enough?...the configuration of the antenna will be
> rectangular and have approximately 300 feet of wire in it...
>
> ...I have a power line travelling kitty-corner across the backyard...this
> power line is approx 12 feet off the ground...this antenna, if I put it
> up, will be following the property line at an average height of 20 feet,
> except for where the power line enters the backyard...at this point, the
> antenna will be UNDER the power line...
>
>
> ..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1

Hi Bruce ,
Use at least # 14 wire for this application.. The Sky wire loop should work
Fb, Mine is 520 feet around, The wire you mentioned will not hold up under
this type of service.

73 Dave KC1DI

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Version: 6.0.380 / Virus Database: 213 - Release Date: 7/24/02

Date: Thu, 1 Aug 2002 06:22:16 -0400
From: "Pastor-KC1DI" <elbc@pivot.net>
To: <N9LAE@amsat.org>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131263] Re: Newbie Antenna
Message-ID: <00b301c23945\$50f42760\$6faaba42@dor>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: "Bill Coady" <N9LAE@amsat.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, July 31, 2002 16:00

Subject: Newbie Antenna

> Hello Everyone:

>

> I hate to open what I assume is a rather large can of worms, but there has been some discussion around the fringes of this question...so here goes...

>

> Being new to HF I am looking to put up an antenna, and so would welcome ideas and suggestions. I do have a few restrictions that I am dealing with, however. First is lack of budget. I spent the budget on the radio (I know you are not supposed to do that, but I did....) so the antenna will have to be homebrew. Second is lack of height. Basically I have a ranch house where the highest point is about 20 feet. The two tallest trees in the yard are 30 foot pines where the top 10 feet are pretty useless as supports. Third, I have a 2 year old son who is into everything(!) so anything like a sloper, etc. cannot go to ground level but would have to be up at least 5 to 10 feet. Fourth, I have a general coverage transceiver and would like some multiband coverage so I can change bands when conditions change, rather than going to bed.

>

> So, the question is...given those restrictions what antenna would you put up?

>

> I know you have probably had this discussion before, but here it is again :)

>

>

> 73

> Bill, N9LAE

> Wausau, WI

>

Hi Bill ,

I would put up a Loop Sky wire fed with ladder line to a tuner.. they work quite well as a general coverage antenna. you can get a 500 foot roll of wire at Home Depot for about 20 buck or so. make the loop as big as you lot will allow and you can even make your own open wire line with the stuff.

73 Dave KC1di

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Version: 6.0.380 / Virus Database: 213 - Release Date: 7/24/02

Date: Thu, 1 Aug 2002 05:50:36 -0500
From: "Jeff Davis" <ke9v@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131264] Dummy Load Info
Message-ID: <002b01c23949\$4534f6d0\$9800a8c0@N9AVG>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks much to all who responded to my question about the dummy load!

72, Jeff

Date: Thu, 1 Aug 2002 05:58:01 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-l@lehigh.edu
Subject: [131265] Walt Maxwell's Reflections
Message-ID: <Pine.LNX.4.44.0208010541250.1649-1000000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I got the 68 page pdf file from the ARRL web page and it was a collection of many QST articles that Walt has written. There is no question in my mind that Walt knew his subject and tried to present it in the best way he knew.

Lots of you guys on this list have read it and learned. For some reason (and it happens all the time) Walt Maxwell's writing is Greek to me, and I am not able to follow it. His Smith Chart he published is full of lables and you can't really see what he did. Had he published about 4 Smith Charts with the development of the reflected power shown on one and then what he did to plot the reflection. But he didn't.

There seems to be confusion about Maxwell the name. Walt Maxwell is a Ham and wrote Reflections. The genius Maxwell did his magnicicent work in 1855 before there was ANY Radio. Before Hertz sent messages across his laboratory (Hertz was the first Ham Radio Operator in the world). The work of the genius Maxwell is still taught in colleges all over the world. And most students think it's hard...:-)

--

Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Thu, 01 Aug 2002 07:59:01 -0400
From: "Dean LaClair - Adk-Com" <nrr2v@northnet.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131266] Re: Low loop of fine wire
Message-ID: <20020801115901.3219.qmail@mail2.northnet.org>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Anyone have a low cost source for " fine" stranded "stealth" antenna wire? I too, have found myself in a restrictive neighborhood...

72

Dean

Date: Thu, 01 Aug 2002 08:18:39 -0400
From: adamvaz@palm.net (Adam Vazquez)
To: qrp-l@lehigh.edu
Subject: [131267] [OT] Looking for Standard C228A Manual
Message-ID: <20020801121839.60AF64503@mo120uhou.palm.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello de Adam Kb2Jpd

Picked up a Used Standard c228a 2m/220. No manual came with it. Anyone has a copy of the manual , I would be happy to reinburse.

Thanks in advance. I am good in the Callbook.

Date: Wed, 31 Jul 2002 20:10:11 -0600
From: "Rod N0RC" <rod@n0rc.us>
To: <kheimbach@ev1.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [131268] Re: NC-20 Output Purity - The Fix
Message-ID: <001601c23900\$92386d70\$6401a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Karl & Gang,

I must give credit where due, the ideas I passed along came from Gary, AA7MY. I was just passing along what was given to me. It is definitely a slick trick--I've used it on K2s, K1s and other rigs with good success. Gary published the idea in his "Blue Printing the NC20" article in the 1999 QRPp.

Good Stuff, thanks Gary.

73, Rod N0RC

----- Original Message -----

From: "Karl Heimbach" <kheimbach@ev1.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, July 31, 2002 7:38 PM
Subject: NC-20 Output Purity - The Fix

> Gang,
>
> Turns out that Rod, N0RC, had the solution to my output purity
problem. I
> soldered a 15 ohm resistor between collector and emitter on the PA
> transistor, connected a MFJ 259 to the antenna BNC, set the MFJ to
14.040
> MHz and then rearranged the windings on L6 and L7 while watching for
> approximately 50 ohms on the MFJ 259. Initially, the MFJ was
indicating
> about 85 ohms and I ended up with between 50 and 60.
>
> I originally had the windings nice and evenly spaced, but the radio is
much
> happier with them bunched together. I have the drive set for 4.6
watts at
> 14.000 MHz and 4.8 at 14.074 with a nice clean waveform at both ends.
>
> Thanks also to Steve Weber and Dave Fifield for their suggestions.
>
>
> Karl - W5QJ

>
>
>

Date: Thu, 01 Aug 2002 08:53:49 -0500
From: Mike <mmorrow@companet.net>
To: aa4lr@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [131269] Re: Smith Chart Answers all questions
Message-ID: <3D493D6D.33BE@companet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bill Coleman wrote:

> ... the computer age, where computational power now assaults many
> of the problems that were so elegantly address with the Smith Chart.

Or as impressively, the clear plastic "Spirules" that were used to plot pole and zero locations of system transfer functions for stability analysis. These seemingly crude graphical tools enabled the design of some pretty impressive engineering achievements long before digital computation turned everything to plug-and-chug cookbook.

Mike / KK5F

Date: Thu, 01 Aug 2002 10:23:47 -0400
From: "Dean LaClair - Adk-Com" <nr2v@northnet.org>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [131270] Question about clamp on computer ferrites;
Message-ID: <20020801142347.8749.qmail@mail2.northnet.org>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Does anyone know what mix the common clamp on ferrite chokes that are seen on computer monitors, line cords etc. are?

72 Dean

Date: Thu, 1 Aug 2002 11:09:28 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131271] Re: Walt Maxwell's Reflections
Message-ID: <20020801151101.METM22079.imf11bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 8/1/02 7:58 AM, Karl F. Larsen at k5di@zianet.com wrote:

>I got the 68 page pdf file from the ARRL web page and it was a
>collection of many QST articles that Walt has written. There is no
>question in my mind that Walt knew his subject and tried to present it
>in the best way he knew.

Gosh, Karl, that's what we were trying to tell you two weeks ago. When
you wouldn't listen. Now you are Walt's biggest fan?

You're welcome.

> There seems to be confusion about Maxwell the name.

The only confusion there seems to be is from you, Karl.

>Walt Maxwell is a Ham and wrote Reflections.

Yes, we understood that.

>The genius Maxwell did his
>magnificent work in 1855 before there was ANY Radio.

Perhaps you're speaking of James Clerk Maxwell 1831-1879.

>Before Hertz sent
>messages across his laboratory (Hertz was the first Ham Radio Operator
>in the world).

I think that is stretching it a bit, Karl. Heinrich Hertz was a professor
and researcher, and showed that the waves postulated by Maxwell did
indeed exist, and had the same properties as light. Hertz didn't actually
USE these waves for communications. That was left to Marconi, although
there are others who were doing similar experiments that may have
preceeded Marconi. (Such as Nathan B. Stubblefield)

>The work of the genius Maxwell is still taught in

>colleges all over the world. And most students think it's hard...:-)

I'm sure his friends called him "James" or "Jim", not "Genious".
Interesting that he died four full years before Hertz did his
experiments.

--

I've noticed you have an interesting habit, Karl. When someone corrects
you, you have this habit of starting a new subject on QRP-L, and
reposting what that person said.

I suppose this makes it appear that it was somehow your idea.

This is to let you know that this ruse is completely transparent to us.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Thu, 1 Aug 2002 09:31:10 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-l@lehigh.edu
Subject: [131272] Conjugate Match, disappear!
Message-ID: <Pine.LNX.4.44.0208010930120.2567-1000000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

When all the dust clears it's obvious the phrase "Conjugate Match"
(CM) is a confusing factor. It has been proved by mathematical means that to
achieve maximum power transfer the two impedances must have equal but
opposite reactive components.

So I suggest we clean up the issue by calling it the "Maximum Power
Match" or "Maximum Power Transfer Match (MPTM)". We define MPTM just exactly
like CM and throw away CM.

Then direct a person interested in proving the reflections do really
work to the "ARRL Antenna Book", Chapter 28 and the other information on
getting the Smith Charts and let him do it as I did. The only tricky part is
the part where you need to assume a load impedance and transmission line
length. I did just that, guessed. Then plot the load and rotate the load

impedance to the tuner end of the feed line. That uses the Load to Generator ring.

The reflected power is different. The real Load is the Generator and the Load is the tuner output port. So you rotate this the proper wavelength and then notice that the impedance of the reflected power is not right for transmission so it's again reflected toward the real Load again.

This is clear and pretty simple.

--

Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Thu, 1 Aug 2002 10:57:48 -0400
From: "Rick Tyler" <rp.tyler@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131273] Re: Vibroplex Folks - A Great Experience
Message-ID: <000201c2396f\$a06f5880\$0fe6540c@ricktyle>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'll add to that with the folks from Alpha-Delta. I'd bought a Kent TP1 at Dayton several years ago when Kent was there selling directly. A couple of years ago, the cat got tangled up in the cord and dragged the paddles off the table, breaking the plastic paddles, and bending the posts they attach to, also crushing the insulating washers. I let it sit for a while, but last year decided to try to fix it up. Kent's web site has parts, and I could have ordered them directly from England, but would be way expensive, then noticed that Alpha-Delta sold them here in the US. I emailed them, asked if they had parts, and they responded with, "what do you need?" And I gave them the list . . . and they sent them out, no charge, no shipping on my part. I would buy from them again, and have.

I've had similar experiences with Ten Tec... I like it!

73 de Rick, WQ8Q

Date: Thu, 1 Aug 2002 11:26:44 -0400
From: "Hartwell, Martin E, ALINF" <mehartwell@att.com>
To: <qrp-l@lehigh.edu>
Subject: [131274] 50 ohm bnc home brew
Message-ID: <6579C6377F475547985F0B3E426E16261406A0@OCCLUST01EVS1.ugd.att.com>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: quoted-printable

Hi=20

Here is how I build my 50 ohm dummys in bnc.

First I get a crimp bnc connector. The ones I use are=20
able to hold the center pin in the insulator. I use the
cut and try method to get the correct length of wire on
one 100 ohm 1/2W resistor so it just stickes out from
the back of the connector. I then wrap the other 100 ohm
1/2W resistor leads around the first resistor leads and solder
thus making a single 50 ohm resistor.
I slip some heat shrink on the lead going into the center pin
of the connector, and solder. Now pull the other lead over
and down to the edge of the ring of the connector and solder.
Holds everything nice and tight, easy to make, if you need more
power disipation, add resistance value and resistors. Now if you
get things to hot go to the penny, or circuit board disc=20
design to add space. But for a watt or two out this works. To add
power up to a point you can blow on it too.

Marty Hartwell kd8bj
AT&T Columbus Ohio
PH:614-501-2503

Date: Thu, 1 Aug 2002 09:35:40 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Mike <mmorrow@companet.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131275] Re: Smith Chart Answers all questions
Message-ID: <Pine.LNX.4.44.0208010933040.2567-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Yes Mike starting with some of the computer replacements for the Smith Chart assures that person will never have a full understanding of the principles. With the Chart you see what's happening and it makes sense.

On Thu, 1 Aug 2002, Mike wrote:

> Bill Coleman wrote:
>
> > ... the computer age, where computational power now assaults many
> > of the problems that were so elegantly address with the Smith Chart.
>
> Or as impressively, the clear plastic "Spirules" that were used to plot
> pole and zero locations of system transfer functions for stability
> analysis. These seemingly crude graphical tools enabled the design of
> some pretty impressive engineering acheivements long before digital
> computation turned everything to plug-and-chug cookbook.
>
> Mike / KK5F
>

--

Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Thu, 1 Aug 2002 10:27:58 -0500
From: "Jeff Davis" <ke9v@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131276] Re: Walt Maxwell's Reflections
Message-ID: <009c01c23970\$04b4bfb0\$1afb540c@CLDE000000MHS4G>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Since the very few of you who are enjoying this thread (to death) are determined to "share" it with the other 3000 members of this list, could you at least keep the subject line the same?

That way the rest of us can easily filter this "wisdom" where it belongs.

Thanks!

Jeff

> On 8/1/02 7:58 AM, Karl F. Larsen at k5di@zianet.com wrote:
>
> >I got the 68 page pdf file from the ARRL web page and it was a
> >collection of many QST articles that Walt has written. There is no
> >question in my mind that Walt knew his subject and tried to present it
> >in the best way he knew.
>
> Gosh, Karl, that's what we were trying to tell you two weeks ago. When
> you wouldn't listen. Now you are Walt's biggest fan?

<Yaddi-Yaddi-Yadda SNIP!>

Date: Thu, 01 Aug 2002 12:04:44 -0400
From: Steven Weber <kd1jv@moose.ncia.net>
To: n5ib@juno.com
Cc: qrp-l@lehigh.edu
Subject: [131277] Re: SWR indicator with LM3914
Message-ID: <3.0.6.32.20020801120444.007b7bd0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>The device should be self-calibrating, since as power level changes I-fwd
>and I-rev will change by the same ratio and the display will still be
>ratiometric, still showing the same "r" over a reasonable range of bridge
>output voltages as driving power varies.
>

Yes, you can do that and it will work! Of course, in this configuration of
putting a meter across the fwd and rev outputs, one would tune for a
maximum meter indication when adjusting a ATU. (Max forward and Min reverse
= max meter indication or best match)

I built a meter like this using a Stockton bridge and AD8307 log detectors.
It's useable from 100 microwatts to 100 + watts, with no range switching.
This meter was published in QRP Quarterly, October 2000 issue, titled, "A
high dynamic range power meter and antenna tuner aid" Wonder if anyone
actually tried to build it...

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire

<http://www.qsl.net/kd1jv/>

Date: Thu, 1 Aug 2002 09:43:25 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@lehigh.edu>
Subject: [131278] Re: loop skywire wire size vs strength...
Message-ID: <MABBJOEABOILMKCJCLFCMEKPDHAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bruce

In considering the strength of your antenna wire, look at the wind strength in your area. One good gust could take out a thin wire antenna that is very long.

Also, if you get any ice buildup on the wire in winter, that will do it too.
73, Bob N6WG

Date: Thu, 1 Aug 2002 09:53:33 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@lehigh.edu>
Subject: [131279] Re: Newbie Antenna
Message-ID: <MABBJOEABOILMKCJCLFCCELADHAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bill

How long a dipole could you install on your property?
Remember that a dipole need not be a resonant length.
If fed with tuned feeders, almost any length will work.
300 ohm TV twinlead works just fine for a tuned feeder.
73, Bob N6WG

Date: Thu, 1 Aug 2002 10:03:40 -0700
From: "Doug Hauff" <dhauff@digitalputty.com>
To: <qrp-1@lehigh.edu>
Subject: [131280] Howzabout Win 3.1?
Message-ID: <006101c2397d\$794a4180\$7b393442@fix.net>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Several folks are looking for the '95 floppies, but the consensus seems to be it would run real slow, although i set up a 486 for my Mom with '95 and it runs fine (but it has much more RAM than my laptop)...so who's got a set of floppies for 3.1? Jeff Chambers has a 3.1 - '95 upgrade, with 3.1 i'd have both options...

Thanks! & 72,

Doug KE6RIE

Date: Thu, 01 Aug 2002 13:12:34 -0400
From: "Randy Randall" <randallr@healthall.com>
To: <qrp-1@lehigh.edu>
Subject: [131281] Re: Howzabout Win 3.1?
Message-ID: <sd4933cc.030@jhs_izar.healthall.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

I have an old Toshiba 486dx75 laptop with 8 meg of RAM and win 95 and it is OK. I am NOT doing PSK31, just terminal emulation, radio control and programing software and it runs reasonably quick. It can be done. I had 486sx25 laptop with win 95 and 24 megs of ram and it was a dog. ymmv.

Randy KB8ASO

>>> "Doug Hauff" <dhauff@digitalputty.com> 08/01/02 13:07 PM >>>
Several folks are looking for the '95 floppies, but the consensus seems to be it would run real slow, although i set up a 486 for my Mom with '95 and it runs fine (but it has much more RAM than my laptop)...so who's got a set of floppies for 3.1? Jeff Chambers has a 3.1 - '95 upgrade, with 3.1 i'd have both options...

Thanks! & 72,

Doug KE6RIE

Date: Thu, 1 Aug 2002 12:19:32 -0500
From: "wilford lindsey" <dock0evz@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>,
"Doug Hauff" <dhauff@digitalputty.com>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [131282] Porta Paddle & Rainbow Tuner Case
Message-ID: <412002841171932580@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Doug:

I did indeed send you a bank money order last evening, to purchase both one of the new Porta Paddles. Hope it gets there soon so you can release them [g].

GL es 74
--Doc Lindsey/K0EVZ

> [Original Message]
> From: Doug Hauff <dhauff@digitalputty.com>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Date: 8/1/2002 12:03:40 PM
> Subject: Howzabout Win 3.1?
>
> Several folks are looking for the '95 floppies, but the concensus seems to
> be it would run real slow, although i set up a 486 for my Mom with '95 and
> it runs fine (but it has much more RAM than my laptop)...so who's got a
> set
> of floppies for 3.1? Jeff Chambers has a 3.1 - '95 upgrade, with 3.1 i'd
> have both options...
>
> Thanks! & 72,
>
> Doug KE6RIE

--- Doc L

Date: Thu, 1 Aug 2002 13:23:03 -0400 (EDT)
From: "n2cx" <n2cx@voicenet.com>
To: qrp-1@lehigh.edu
Subject: [131283] Re: SWR indicator with LM3914
Message-ID: <200208011723.g71HN3S22627@email1.voicenet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1

Jim,

Re the autocal SWR idea.

Indeed it has been thought of before!

I designed the Rainbow Bridge with exactly that principle. It was first published in QRPp back in 1996 (?)

Of course *I* got the idea while reading the '3914 data sheet! . :-)

Indeed an idle mind is the devil's workshop.

Now I'm anal about calibration so while the 3914 gives good relative indications, the Rainbow Tuner's bridge uses a common LM339 comparator and a couple of cheap 1% resistors to give you calibrated readings of >5:1, 3:1, 2:1 and < 1.5:1.

Who needs more than that?

See http://www.njqrp.org/Rainbow/rb_home.html for info.

72/73,
Joe E., N2CX

Date: Thu, 01 Aug 2002 13:45:56 -0400
From: "Charles Mabbott" <aa8vs@msn.com>
To: qrp-1@lehigh.edu
Subject: [131284] Conjugate Match, Momma said

Message-ID: <F23EZhVWgxMFz1FoZSf0000008f@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

My momma always tol me don't play with matches, how about
youse conjugate a verb or something.... Just curious

>From: "Karl F. Larsen" <k5di@zianet.com>
>Reply-To: k5di@zianet.com

73 oo
Chuck

MSN Photos is the easiest way to share and print your photos:
<http://photos.msn.com/support/worldwide.aspx>

Date: Thu, 01 Aug 2002 13:54:47 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: k5di@zianet.com, qrp-l@lehigh.edu
Subject: [131285] Re: Conjugate Match, disappear!
Message-ID: <3D4975E7.57E18AA4@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Right, and we should elevate you to one of the great thinkers of
electrical engineering! Conjugate match was a term in use 50 some years
ago when I was a freshman EE. It was old at that time. Now we should
change all the texts because you don't agree?

73

Date: Thu, 01 Aug 2002 14:03:38 -0400
From: W2AGN <w2agn@w2agn.net>
To: Ken Newman <n2cq@dandy.net>, njqrp@njqrp.org,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131286] Re: [NJQRP] [CONTEST] N2CQ QRP Contest Contest Calendar - August
2002
Message-ID: <3D493FBA.6567.48D4403@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 31 Jul 2002 at 21:20, Ken Newman wrote:

```
> ~~~~~  
>  
> N2CQ QRP CONTEST CALENDAR  
>  
> August 2002  
>  
>
```

Let me add two further events. This is the Pan American Lighthouse/Lightship Weekend, sponsored by the Amateur Radio Lighthouse Society. It will be this weekend, August 3-4. For details go to <http://www.arlhs.com/page3c.html>.

In addition, the International Lighthouse/Lightship weekend is August 17-18. This is an International event, organized by Mike, GM4SUC. For more info see <http://www.arlhs.com/page3d.html>.

I will be operating W2E, CW only, on 14,035, 21,035 and possible 7035, from East Point Lighthouse, NJ ARLHS #USA-262 on both weekends.

--

```
/ \ / \ / \ / \ / \ John L. Sielke  
( W )( 2 )( A )( G )( N ) http://www.w2agn.net  
\_ / \_ / \_ / \_ / \_ / QRP/ARCI, NJQRP, ARQrp, GQRP, RSGB  
Ex- K3HLU, W7JEF, W4MPC, N4JS
```

Date: Thu, 1 Aug 2002 13:07:59 -0500
From: "Johnson, Mike (MED, OEC)" <Mike.Johnson@med.ge.com>
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Cc: "'writer@softcom.net'" <writer@softcom.net>
Subject: [131287] Need Wyoming? BB 72 Finally Checks In
Message-ID: <2DE78F33FFE0D3118C0200508B94F9CA01BCD6A7@uswaumsx08medge.med.ge.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

My apologies to everyone who may have hoped to work Wyoming during the recent Flight of the Bumblebees.

I was all packed up ready to go to Grandma's when we got word that my

brother in law had passed away. We just got the funeral over with yesterday. Allen was not a ham but that was his only shortcoming that I can think of. It has been a tough weekend.

I visit Wyoming frequently to see family, so anybody who needs Uinta County, please email me for a sked. I am always looking for an excuse to escape to the wide open spaces.

BTW thanks to all who helped with the SL Vertical. It is working great.

72 from Utah!
Mike Johnson
K7RVX

Date: Thu, 1 Aug 2002 12:09:43 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131288] Address Help
Message-ID: <Pine.BSI.3.96.1020801120747.27152B-100000@usr02.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Does anyone out there know the current email address for Bill Carver? I just tried sending him an email and it bounced.

Chris

[illegible]

High Performance Mixers and Amplifiers for RF Communications

Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Thu, 01 Aug 2002 12:28:31 -0700
From: Brian Kassel <bkassel@mato.com>
To: k5di@zianet.com, QRP-L <QRP-L@lehigh.edu>
Subject: [131289] RE: [131207] RE: [131072] RE: Most Wanted States = *Wyoming*
Message-ID: <3D498BDF.F1CAAFED@mato.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Karl and the Gangue:

Karl said:

"Hi Brian can't you park your RV on the state line and give each person both states? Some many years ago I and friends operated from the 4 corners memorial which is a common point for New Mexico, Arizona, Colorado and Utah. We got a lot of cards!"

This would be a great idea, and I would surely enjoy doing it, but there is a giant snag. The ARRL does not recognize such operating procedure as valid. If you will recall, when the 4 corners operation took place, it was for a QRP field event. It counted OK for that, as the operation was "among friends" so to speak.

Of course one could set up 2 stations, one on each side of the state lines, and simply do 2 QSO's. one for each state. Doc, K0EVZ (in ND) mentioned an activity something like that some time ago. Maybe, before the snow flies, something like that could be put together, if only on an informal basis. Discussion?

Brian K7RE

Date: Thu, 1 Aug 2002 13:17:56 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
Low Power Group <qrp-l@lehigh.edu>

Subject: [131290] Cushcraft R-5 HF vertical antenna
Message-ID: <Pine.LNX.4.33.0208011315580.32369-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Can someone e-mail me the details about this antenna please?...I've been surfing but all I've found is a manual site but one has to order the manual of course to get any info... ;-)I went to the Cushcraft site but didn't find it listed there.....any other urls I can try?...tnx...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Thu, 01 Aug 2002 19:30:45 +0000
From: Arthur Moe <kb7ww@easystreet.com>
To: rattray@gpfn.sk.ca
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131291] Re: Cushcraft R-5 HF vertical antenna
Message-ID: <3D498C65.7F1AC329@easystreet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bruce,

It's on CC site

<http://www.cushcraft.com/support/pdf/r5.pdf>

Art
KB7WW

Bruce Rattray wrote:

>
> Can someone e-mail me the details about this antenna please?...I've been
> surfing but all I've found is a manual site but one has to order the
> manual of course to get any info... ;-)I went to the Cushcraft site
> but didn't find it listed there.....any other urls I can try?...tnx...
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> A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -

> - VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
> "QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Thu, 1 Aug 2002 13:34:53 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Arthur Moe <kb7ww@easystreet.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131292] Re: Cushcraft R-5 HF vertical antenna
Message-ID: <Pine.LNX.4.33.0208011334230.32369-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

OK Art...thank you....I'll go have a looksee...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

On Thu, 1 Aug 2002, Arthur Moe wrote:

> Bruce,
>
> It's on CC site
>
> <http://www.cushcraft.com/support/pdf/r5.pdf>
>
> Art

Date: Thu, 1 Aug 2002 13:33:12 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Brian Kassel <bkassel@mato.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131293] RE: [131207] RE: [131072] RE: Most Wanted States = *Wyoming*
Message-ID: <Pine.LNX.4.33.0208011331420.32369-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well Brian, maybe Doc could straddle the state line with his operating

table and that would count for working the 2 states eh!?!?.... ;-) ...if
someone does go out for a multi-state operation I'll be one of the
"hunters"....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Thu, 01 Aug 2002 19:48:10 +0000
From: k8cz@att.net
To: fpqrp-l@mpna.com (The Pigs!)
Cc: qrp-l@lehigh.edu (QRP-L), njqrp@njqrp.org (NJQRP)
Subject: [131294] Truffle Hunt
Message-ID:
<20020801194810.XECI11089.mtiwmhc22.worldnet.att.net@webmail.worldnet.att.net>

I have the duty tonight and will be transmitting on
14.060 MHz +/- QRM. Will be working split and listening
up about 1 kHz using an FT 817 with the 500 Hz filter
installed. Good luck to all both in the Truffle hunt
and the Fox Hunt

<http://www.mpna.com/fpqrp/struffle.html>

--
73,72, 00
FP #41 NJQRP #338 Fists #2360
ARCI #9606 SOC #336 Norcal ARRL
Hamilton, Ohio EM79ri
Tom, K8CZ

Date: Thu, 1 Aug 2002 15:59:56 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131295] Re: Conjugate Match, disappear!
Message-ID: <20020801200129.MFFJ20691.imf04bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

On 8/1/02 11:31 AM, Karl F. Larsen at k5di@zianet.com wrote:

>When all the dust clears it's obvious the phrase "Conjugate Match"
>(CM) is a confusing factor.

Karl, it isn't confusing at all.

>It has been proved by mathematical means that to
>achieve maximum power transfer the two impedances must have equal but
>opposite reactive components.

Actually, I would scrupulously AVOID any terms having to do with maximum power anything, since that appears to raise the ugly head of certain freshman EE problems that convey any understanding.

Indeed, the Conjugate Match is more about RESONANCE -- which is the cancellation of reactive components -- than about power transfer, although a system at resonance effectively transfers power.

>So I suggest we clean up the issue by calling it the "Maximum Power
>Match" or "Maximum Power Transfer Match (MPTM)". We define MPTM just exactly
>like CM and throw away CM.

So, you would have us rename a phenomena that has been writ about for 30 some years, that many others have come to understand, all because you don't like the name?

> Then direct a person interested in proving the reflections do really
>work to the "ARRL Antenna Book", Chapter 28 and the other information on
>getting the Smith Charts and let him do it as I did. The only tricky part is
>the part where you need to assume a load impedance and transmission line
>length. I did just that, guessed. Then plot the load and rotate the load
>impedance to the tuner end of the feed line. That uses the Load to Generator
>ring.

The load impedance and transmission line length don't really matter in a conjugate match problem.

The situation gets more interesting if we take lossless, or negligibly lossy transmission lines and throw practical ones in instead. Use small-diameter coax instead of open wire. The problem becomes somewhat different.

The load impedance is attenuated toward the Z_0 of the line, so the conjugate condition at the tuner doesn't completely cause the conjugate condition to exist across the entire line -- the tuner's impedance is

attenuated toward the Zo as well, so the conjugates that matched perfectly at the tuner diverge as you approach the load.

In this case, I beleive that power transfer is the same (minus the loss in the transmission line), so long as the conjugate condition exists at some point on the transmission line.

> The reflected power is different. The real Load is the Generator and
>the Load is the tuner output port. So you rotate this the proper wavelength
>and then notice that the impedance of the reflected power is not right for
>transmission so it's again reflected toward the real Load again.
>
> This is clear and pretty simple.

That's what we all thought, Karl.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Thu, 01 Aug 2002 16:18:40 -0400
From: "John P. Cummins, Sr." <jpcummins@charter.net>
To: noga <nogaqrp@mailman.qth.net>, qrp-l <qrp-l@lehigh.edu>
Subject: [131296] NoGa Announces the "Guppy" - New Kit
Message-ID: <3D4997A0.D4A78474@charter.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

NoGa is announcing the availability of it's "Guppy" electronic kit. The "Guppy" (Genuinely Useful and Practical qrp accessorY) is a semi break in kit based on "W1FB's QRP Notebook" published by the ARRL in 1991.

This is the perfect companion for the your qrp RX and TX.

We are also announcing the NoGa "GuppyWaTTaPiG" which ia a package deal for all three of our electronic kits.

Also.. we have a new inventory of NoGaWaTT and NoGaPiG kits available as well as both printed and CD versions of the NoGa Compendium Vol. 1 - 2001.

Go to <http://www.nogaqrp.org> to check out these items and all the doings of the North Georgia QRP Club.

Pickett, AD4S

Date: Thu, 1 Aug 2002 16:27:02 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <wv7g@arrl.net>,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131297] Re: Smith Chart Use
Message-ID: <20020801202701.ULOJ17837.imf26bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/31/02 11:22 PM, Bill Walker at wv7g@arrl.net wrote:

>On Wed, 31 Jul 2002, Bill Coleman wrote:
>
>> I take offense that you would accuse me of being uneducated.
>
>Bill, I find that statement rather interesting. I believe it was you who
>insinuated the same in reference to Karl at least twice that I counted. Is
>this the pot calling the kettle black?

Not at all. Karl has asserted in the past that he has a PhD in EE. Yet, he posts messages which are woefully ignorant of basic electronic theory that even I, someone who is not an EE, knows. That didn't seem to follow.

You see, I wasn't insinuating anything other than what I observed from his posts.

Yet, he calls me uneducated, and presents no evidence as to why that might be the case.

>Isn't it about time, gentlemen, that we all act our ages and stop with the
>childish insults? Please?

Sure thing.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Thu, 1 Aug 2002 16:30:20 -0400

From: Bill Coleman <aa4lr@arrl.net>
To: <mmorrow@companet.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131298] Re: Smith Chart Answers all questions
Message-ID: <20020801203153.XSAP3520.imf13bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 8/1/02 9:53 AM, Mike at mmorrow@companet.net wrote:

>Or as impressively, the clear plastic "Spirules" that were used to plot
>pole and zero locations of system transfer functions for stability
>analysis. These seemingly crude graphical tools enabled the design of
>some pretty impressive engineering achievements long before digital
>computation turned everything to plug-and-chug cookbook.

In aviation, I still use my E6-B to solve problems, especially wind
corrections.

While computerised tool and special calculators might seem more precise,
there's lots to be said for these ancient mechanical tools, which give
good answers very quickly.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Thu, 1 Aug 2002 20:27:22 +0100
From: "Leon Heller" <leon_heller@hotmail.com>
To: "Low Power" <qrp-l@lehigh.edu>
Subject: [131299] Ugly BNC sockets
Message-ID: <DAV33pGgeg3hBHDcrbw000187b8@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

When I've needed to use a BNC socket when prototyping with 'ugly' ground
plane construction, I've always used the bulkhead type, and soldered the tag
onto the PCB ground plane. I recently bought some of the straight PCB
sockets (four lugs in a square), and find them much better. I just tin two
adjacent mounting lugs (I file them lightly first so that the solder takes)
and solder them down to the ground plane at the edge of the board. The

connector is parallel to the board, of course. They are a lot more rigid and look less ugly. Cheaper, as well.

73, Leon

--

Leon Heller, G1HSM
leon_heller@hotmail.com
http://www.geocities.com/leon_heller

Date: Thu, 01 Aug 2002 16:44:17 -0400
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [131300] OT request
Message-ID: <3.0.6.32.20020801164417.007aaea0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Dear Steven,

>

>I am a member of this group but I am having problem when I try to post
>something. Could you post the following message on behalf of me? Please?

>

>Thank you.

>

>

>Subject: Maybe OT but no at all...

>

>Hello!

>

>I am looking for schematics related with computer UPS (APC, Excide, etc)

>Any help?

>

>73 & DX, C03J0 - Joc >

Reply to jocsan@ctehab.minbas.cu

Date: Thu, 01 Aug 2002 14:55:51 -0600 (CST)
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Cc: Brian Buydens <brian.buydens@usask.ca>
Subject: [131301] QRP Egos
Message-ID: <Pine.OSF.4.44.0208011446310.156003-100000@duke.usask.ca>
MIME-version: 1.0
Content-type: TEXT/PLAIN; charset=US-ASCII

It seems that some of the more recent threads, while containing much interesting a factual information, have also contained a high amount of noise along with the signal, ie. ad homenum attacks, questioning peoples credentials, memory, education, lineage, (have I missed any?). While I have learned from reading the posts, I would not want to show them to my children as examples of good behaviour, nor do I think I could use them to encourage others to become radio amateurs.

Since this is a QRP group I began wondering if we could use the concept of QRP to improve the situation. It seems to me the essential kernel of QRP is to do more with less, ie. use enough to accomplish the task but not to be excessive. To this end I would like to propose the concept of the "QRP Ego".

The possessor of a QRP Ego would have an Ego that is:

1. Large enough to believe you can succeed but not so large you think you are the only one who can.
2. Large enough to have opinions but not so large that you think people who disagree with you are automatically wrong or stupid.
3. Large enough to explore new things but not so large that if your results contradict established theory that you automatically assume the established theory is wrong.
4. Large enough to believe you can learn new things but not so large you think that nobody else can teach you anything.
5. Large enough to express an opinion but not so large you attack others for expressing theirs.
6. Large enough that you are proud of your qualifications but not so large that you belittle other people's qualifications.

Others???

Brian Buydens
Veterinary Electronic Data Specialist
Computing Services, University of Saskatchewan
email: Brian.Buydens@usask.ca
<http://duke.usask.ca/~buydens>
VE5RDV

There is nothing to it. You only have to hit the right notes at the

right time and the instrument plays itself.
- Johann Sebastian Bach

Date: Thu, 01 Aug 2002 17:06:14 -0400
From: Mike Czuhajewski <wa8mcq@comcast.net>
To: QRP-L <qrp-l@lehigh.edu>
Cc: wa8mcq@comcast.net
Subject: [131302] Lost e-mail files and the Elecraft reflector
Message-ID: <001101c2399f\$453241a0\$6401a8c0@gambrl01.md.comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

OK, I blew this one. The mail reflectors ate my inbox. I went out of town for a couple of weeks and failed to set all my mail reflectors to POSTPONE. If I could check my mail every once in a while and keep the mailbox cleaned out regularly, everything would be OK. Unfortunately I was never able to do that for various reasons, so when the mailbox hit the 5 meg limit the new mail kept pushing the older ones out the rear end. As a result, I have nothing that was sent between 18 and 26 June.

I can catch up on all the reflectors from their archives, but personal mail is a different story. If anyone sent me mail during that time and hasn't heard back from me, please let me know. Since I write a regular column for the QRP Quarterly, there's a good chance that someone may have sent me some inputs for it, or followed up on earlier queries about their inputs. (I know some people promised to send me something eventually when they got a chance.)

A common QRP-L practice is to include some "obligatory QRP" content (OB QRP) to sort of redeem and justify the bandwidth of an otherwise off topic posting, so here it is:

Some time ago the Elecraft folks set up a mail reflector for users of their products. Although I don't have any Elecraft products I've been subscribed to it for a few months now out of curiosity, and it's quite active. There is a lot of good info about their rigs, as well as a lot that is useful even if you don't have one.

To subscribe to the reflector, go to

<http://mailman.qth.net/mailman/listinfo/elecraft>

There's also a lot of material on their web page, at <http://www.elecraft.com/> Among other things, you can check out all the archives of the mail reflector, download their manuals in PDF format and read various technical articles. Even if you don't own an Elecraft and don't plan to, their web site and reflector are definitely worth checking out. If you do own an Elecraft, these are *THE* places to go for mods, fixes, tips, etc.

Usual disclaimers, no connection with Eric or Wayne except for meeting them in person a number of times over the years, etc. (Note to Eric--remember those packaged electronic attenuators from MiniCircuits that we both bought at Pacificon in 1998 for \$5 each and how I promised to write something up about the difference between them and a double balanced mixer? Still haven't done it, but haven't forgotten either!)

73 and queue our pea DE WA8MCQ

Date: Thu, 1 Aug 2002 14:06:23 -0700
From: "Tracy Markham" <tracy@bytemark.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [131303] because of my QRP-Lmers ...
Message-ID: <GNEOLGDJDOPEALHJMKLCAEBICIAA.tracy@bytemark.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

I've learned many new things about ham radio
I've been motivated to build things. Get off my butt and build things!
I've made several working kits and projects
I've made things that didn't work - and fixed them!
I've learned how to 'isolate' portions of a project for trouble shooting
I've repaired equipment I didn't understand
I've been able to understand CW weighting
I've learned that all OS's suck for one reason or another
I've figured out how to delete and ignore ...
And so much more ...

Seems like I've been on here what, three or four years now?
I hope I can be as helpful to someone as you guys have been to me!!

Thanks

Tracy N4LGH

Date: Thu, 1 Aug 2002 14:08:43 -0700
From: "Tracy Markham" <tracy@bytemark.com>
To: "QRP-L" <qrp-l@lehigh.edu>, <buydens@duke.usask.ca>
Subject: [131304] RE: QRP Egos
Message-ID: <GNEOLGDJDOPEALHJMKLCAEBJCIAA.tracy@bytemark.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hey I like that!
Tracy N4LGH

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of
Brian.Buydens@usask.ca
Sent: Thursday, August 01, 2002 1:56 PM
To: Low Power Amateur Radio Discussion
Subject: QRP Egos

It seems that some of the more recent threads, while containing much interesting a factual information, have also contained a high amount of noise along with the signal, ie. ad homenum attacks, questioning peoples credentials, memory, education, lineage, (have I missed any?). While I have learned from reading the posts, I would not want to show them to my children as examples of good behaviour, nor do I think I could use them to encourage others to become radio amateurs.

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6. Large enough that you are proud of your qualifications but not so large that you belittle other people's qualifications.

Others???

Brian Buydens
Veterinary Electronic Data Specialist
Computing Services, University of Saskatchewan
email: Brian.Buydens@usask.ca
<http://duke.usask.ca/~buydens>
VE5RDV

There is nothing to it. You only have to hit the right notes at the right time and the instrument plays itself.

- Johann Sebastian Bach

Date: Thu, 01 Aug 2002 21:14:29 +0000
From: "Alan Fryer" <N3BJ@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [131305] N3BJ Fox Reminder
Message-ID: <OE34iXntu0hDQwfcF2k0000525b@hotmail.com>

Hounds

In about 5 hours, I'll be on 14.055 or so, listening up 1, running K2 #78 into an antenna favoring your direction.

Please get on if you can.... would like to improve on the 73 Qs I had last run. As the pack thins, I'll be listening for weak sigs from areas not favored by propagation.

DX welcome, too !

Happy Hunting,

N3BJ Fox
nr Roanoke, VA

Date: Thu, 01 Aug 2002 17:18:06 -0400
From: Ed Tanton <n4xy@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131306] Re: QRP Egos
Message-ID: <5.1.1.6.2.20020801171734.02d1cfe0@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Outstanding Brian !

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

Date: Thu, 1 Aug 2002 14:17:00 -0700
From: "Tracy Markham" <tracy@bytemark.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [131307] SMPS SMD Inductors as HF filters?
Message-ID: <GNEOLGDJDJOPEALHJMKLCOEBJCIAA.tracy@bytemark.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"

Content-Transfer-Encoding: 7bit

It just dawned on me that some switch mode power supply inductors have very high self-resonant frequencies, think they might be useable as inductors for QRP transmitters and rx filters?

I was writing up a press release about how some of our inductors can handle 9.8a ... and I wondered if the materials might even be close to compatible, or at least useable?

Tracy N4LGH

Date: Thu, 01 Aug 2002 17:19:50 -0400
From: W2AGN <w2agn@w2agn.net>
To: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>,
buydens@duke.usask.ca,
Subject: [131308] Re: QRP Egos
Message-ID: <3D496DB6.26893.540F37F@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 1 Aug 2002 at 14:55, Brian.Buydens@usask.ca wrote:

"QRP
> Ego".
>
> The possessor of a QRP Ego would have an Ego that is:
>
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> are the only one who can.
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> results contradict established theory that you automatically assume the
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> think that nobody else can teach you anything.
>
> 5. Large enough to express an opinion but not so large you attack others

> for expressing theirs.

>

> 6. Large enough that you are proud of your qualifications but not so

> large that you belittle other people's qualifications.

>

Very good, but what do we do with the guy with a QRO Ego, and QRP Brains, who also has a QRO Mouth, but QRP Sense?

(Yeah, I know, sounds like me, too.....)

--

/ \ / \ / \ / \ / \ John L. Sielke
(W)(2)(A)(G)(N) <http://www.w2agn.net>
_ / _ / _ / _ / _ / QRPARCI, NJQRP, ARQrp,GQRP,RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS

Date: Thu, 01 Aug 2002 17:26:36 -0400
From: W2AGN <w2agn@w2agn.net>
To: Tracy Markham <tracy@bytemark.com>, tracy@bytemark.com,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131309] Re: because of my QRP-Lmers ...
Message-ID: <3D496F4C.5116.5472380@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 1 Aug 2002 at 14:06, Tracy Markham wrote:

> I've learned many new things about ham radio
> I've been motivated to build things. Get off my butt and build things!
> I've made several working kits and projects
> I've made things that didn't work - and fixed them!
> I've learned how to 'isolate' portions of a project for trouble shooting
> I've repaired equipment I didn't understand
> I've been able to understand CW weighting
> I've learned that all OS's suck for one reason or another
> I've figured out how to delete and ignore ...
> And so much more ...
>
> Seems like I've been on here what, three or four years now?
> I hope I can be as helpful to someone as you guys have been to me!!
>
> Thanks

> Tracy N4LGH

>

>

I note you left out.

1. All about Conjugate Matching
2. Smith charts for fun and...well, fun.
3. If the volume on ALL your rigs seems low, get the ear wax cleaned out!

--

/ \ / \ / \ / \ / \ John L. Sielke
(W)(2)(A)(G)(N) <http://www.w2agn.net>
_ / _ / _ / _ / _ / QRPARCI, NJQRP, ARQrp,GQRP,RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS

Date: Thu, 1 Aug 2002 14:43:46 -0700
From: "Doug Hauff" <dhauff@digitalputty.com>
To: <qrp-1@lehigh.edu>
Subject: [131310] '95 on the way
Message-ID: <004701c239a4\$9aa32c80\$0d393442@fix.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Far Out! Dave Bixler is sending me the floppies (and a CD) Thanks Dave!
Thanks Gang!

I'll post a note about how well it works when I can...

TNX & 72,

Doug KE6RIE

Date: Thu, 1 Aug 2002 17:45:35 -0400
From: "Mike Yettsko" <myetsko@insydesw.com>
To: <tracy@bytemark.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [131311] Re: because of my QRP-Lmers ...
Message-ID: <001901c239a4\$c82ce380\$0300a8c0@charter.net>

MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

And most important of all...

You seem to have one heck of a positive attitude about this!

(Something I think we all fall down on occasionally)

Mike

----- Original Message -----

From: "Tracy Markham" <tracy@bytemark.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Thursday, August 01, 2002 5:06 PM
Subject: because of my QRP-Lmers ...

> I've learned many new things about ham radio
> I've been motivated to build things. Get off my butt and build things!
> I've made several working kits and projects
> I've made things that didn't work - and fixed them!
> I've learned how to 'isolate' portions of a project for trouble shooting
> I've repaired equipment I didn't understand
> I've been able to understand CW weighting
> I've learned that all OS's suck for one reason or another
> I've figured out how to delete and ignore ...
> And so much more ...
>
> Seems like I've been on here what, three or four years now?
> I hope I can be as helpful to someone as you guys have been to me!!
>
> Thanks
> Tracy N4LGH
>
>
>

Date: Thu, 1 Aug 2002 15:01:24 -0700
From: "Jerry Parker" <qrpadio@charter.net>
To: <qrp-l@lehigh.edu>
Subject: [131312] NorCal's August Meeting this weekend

Message-ID: <002a01c239a6\$fb9203c0\$36f5cd18@charterpipeline.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

NorCal Meeting

The Upcoming August Meeting

QRPers, the August meeting of the NorCal QRP Club will be held as usual Sunday August 4th at the California Burger Restaurant, located off the Santa Rita Exit of I580 West of Livermore and East of Pleasanton. I will be bringing Graham Firth and his lovely wife Pat with me to the meeting. We should arrive about 10:00 and Graham will only be able to stay 30 - 45 minutes, but he is looking forward very much to attending.

The California Burger is located in the small shopping center behind the Shell Station across the street from McDonald's Restaurant. If you are coming from Livermore, take the Santa Rita exit, and you will come to a stop light. Turn left and go over the freeway. You will come to a traffic signal. Turn left, and you will notice a McDonald's on your left, and a Shell station on your right. Take the first right turn, (about 107 yards, 2 feet and 7 1/4 inches from the intersection) and you will be in a small shopping center. The California Burger is in the SouthWest corner of the shopping center. Look for all of the cars, you can't miss it.

If you are coming from Pleasanton, take the Santa Rita exit to your right. You will come to a traffic light. Go straight across the street, and you will see the McDonald's and Shell Station. Same directions as above.

Remember, if you have never been to a QRP meeting, this is not like all of the other meetings you go to. It starts about 10:30 and ends about 1:30 or so. No rules, no minutes, no new business, no old business, just a get together of QRPers who want to meet and share QRP information with others of like interests. Our meeting is entirely social, and those who attend always seem to enjoy themselves. If you come, bring along your latest project to share with the rest of us, we want to see and admire it, probably steal a couple of your ideas in our next project, but we will have fun!

72,

Doug, KI6DS

The NorCal Page

Date: Thu, 1 Aug 2002 15:11:11 -0700
From: "Doug Hauff" <dhauff@digitalputty.com>
To: "Steve Holloway" <wsholloway1@yahoo.com>
Cc: <qrp-1@lehigh.edu>
Subject: [131313] Re: Howzabout Win 3.1?
Message-ID: <004e01c239a8\$58eb4da0\$0d393442@fix.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

From: "Steve Holloway" <wsholloway1@yahoo.com>

> Doug
> I have a set of 3.1 floppies and I promise if you
> would like to borrow them it won't take me as long to
> get them to you as it did for you to get me the
> rainbow enclosure.
> Steve Holloway KE4JZG

GOOD LORD I HOPE NOT!

Doug KE6RIE

>
>
>

Date: Thu, 1 Aug 2002 15:07:46 -0700 (PDT)

From: Bill ROWLETT <kc4atu@yahoo.com>
To: nr2v@northnet.org,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131314] Re: Low loop of fine wire
Message-ID: <20020801220746.485.qmail@web14204.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

If you check out the local building supply or hardware store, they will have a choice of black insulated wire which will disappear when installed.

73 Bill kc4atu

Do You Yahoo!?
Yahoo! Health - Feel better, live better
<http://health.yahoo.com>

Date: Thu, 01 Aug 2002 16:20:51 -0600 (CST)
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
To: W2AGN <w2agn@w2agn.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131315] Re: QRP Egos
Message-ID: <Pine.OSF.4.44.0208011620180.175666-100000@duke.usask.ca>
MIME-version: 1.0
Content-type: TEXT/PLAIN; charset=US-ASCII

On Thu, 1 Aug 2002, W2AGN wrote:

> Very good, but what do we do with the guy with a QRO Ego, and QRP Brains, who also has a QRO Mouth, but QRP Sense?

>

> (Yeah, I know, sounds like me, too.....)

That's where the QRO sense of humour comes in...

Brian Buydens
Veterinary Electronic Data Specialist
Computing Services, University of Saskatchewan
email: Brian.Buydens@usask.ca
<http://duke.usask.ca/~buydens>
VE5RDV

There is nothing to it. You only have to hit the right notes at the
right time and the instrument plays itself.

- Johann Sebastian Bach

End of QRP-L Digest 2634
